

SFUND RECORDS CTR  
**2160038**

SEVERN  
TRENT

**STL**

**STL Sacramento**  
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West Sacramento, CA 95605

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January 11, 2005

STL SACRAMENTO PROJECT NUMBER: G4L090480  
PO/CONTRACT: W91238-04-F-0084

Dan Jablonski  
CH2M Hill Inc  
3 Hutton Centre Drive  
Suite 200  
Santa Ana, CA 92707

Dear Mr. Jablonski,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on December 9, 2004. These samples are associated with your Omega Chemical project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4362.

Sincerely,



Diana Brooks  
Project Manager

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## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G4L090480

#### WATER, 1625 Modified, Semivolatiles by HRMS

Sample(s): 1, 2, 3

This batch was associated with a sample that had a very high concentration of the target compound nitrosodimethylamine (NDMA). The associated method blank, laboratory control sample and samples were therefore contaminated at similar levels. All samples that had a positive for NDMA were re-extracted outside of hold time for this compound.

NDMA will be reported from the re-extracted analysis.

Sample(s): 1, 2, 3

The method blank was contaminated with the target compound nitrosodimethylamine (NDMA) above the client requested reporting limit. All the associated samples are non detect below the reporting limit of 2.0 ng/L and are not impacted by this anomaly except for sample -003 which will be reported as positive with a "B" flag at 4.27 ng/L

Sample(s): 2

The recovery for the internal standard d6-Nitrosodimethylamine (d6-NDMA) was below the recommended limit of 25%. This is directly due to losses during the solvent reduction steps due to the extreme volatility of these compounds. Isotope dilution generally precludes any adverse impact to the target compound quantitation when a signal to noise of 10:1 is achieved. In all cases this criteria was met and there is no impact to the reported data.

There were no other anomalies associated with this project.



### STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 200005
Arkansas	NA	South Carolina	87014001
Connecticut	PH-0691	Virginia	00178
Georgia	960	West Virginia	9930C, 334
Louisiana*	01944	NFESC	NA
Nevada	CA 044	USACE	NA
New York*	11666	USDA Foreign Soil	S-46613

\*NELAP accredited. A more detailed parameter list is available upon request.

### QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## G4L090480

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
G0PC2	1	OC2-MW10A-W-0-104	12/8/04 09:55 AM	12/9/04 10:50 AM
G0PC4	2	OC2-MW3A-W-0-105	12/8/04 11:30 AM	12/9/04 10:50 AM
G0PC5	3	OC2-MW2A-W-0-106	12/8/04 12:20 PM	12/9/04 10:50 AM

### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

**Chain of  
Custody Record**

STI

STL-4124 (0901)

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LOT RECEIPT CHECKLIST  
STL Sacramento

CLIENT CH2mHii PM DB LOG # 29975  
LOT# (QUANTIMS ID) G4L090480 QUOTE# 60733 LOCATION W228

DATE RECEIVED 12-04 TIME RECEIVED 1050

Initials CR Date 12-9-04

- DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) Seals

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER

COC #(S) 142905

TEMPERATURE BLANK 4°

SAMPLE TEMPERATURE 5°

COLLECTOR'S NAME:  Verified from COC.  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW  N/A

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL

N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

N/A

Clouseau

TEMPERATURE EXCEEDED (2 °C - 6 °C)<sup>1</sup>  N/A

WET ICE

BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

Notes:

\*1 Acceptable temperature range for State of Wisconsin samples is  $\leq 4^{\circ}\text{C}$ .

WATER, 1625 Modified, Semivolatiles by  
HRMS

**CH2M Hill Inc**

**Client Sample ID: OC2-MW10A-W-0-104**

**Trace Level Organic Compounds**

**Lot-Sample #....: G4L090480-001 Work Order #....: G0PC21AC Matrix.....: WATER**  
**Date Sampled....: 12/08/04 Date Received...: 12/09/04**  
**Prep Date.....: 12/13/04 Analysis Date...: 12/17/04**  
**Prep Batch #....: 4348402**  
**Dilution Factor: 1**

<b>PARAMETER</b>	<b>RESULT</b>	<b>DETECTION</b>		<b>METHOD</b>
		<b>LIMIT</b>	<b>UNITS</b>	
1, 2, 3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
<hr/>				
<b>INTERNAL STANDARDS</b>	<b>PERCENT RECOVERY</b>	<b>RECOVERY</b>		
		<b>LIMITS</b>	<b>(25 - 150)</b>	
1, 2, 3-Trichloropropane-d5	67			

**CH2M Hill Inc**

**Client Sample ID: OC2-MW10A-W-0-104**

**Trace Level Organic Compounds**

**Lot-Sample #....: G4L090480-001    Work Order #....: G0PC22AC              Matrix.....: WATER**  
**Date Sampled....: 12/08/04              Date Received...: 12/09/04**  
**Prep Date.....: 12/22/04              Analysis Date...: 12/29/04**  
**Prep Batch #....: 4357371**  
**Dilution Factor: 1**

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
N-Nitrosodimethylamine-d6	34	(25 - 150)		

## CH2M Hill Inc

Client Sample ID: OC2-MW3A-W-0-105

## Trace Level Organic Compounds

Lot-Sample #....: G4L090480-002 Work Order #....: G0PC41AC Matrix.....: WATER  
Date Sampled....: 12/08/04 Date Received...: 12/09/04  
Prep Date.....: 12/13/04 Analysis Date...: 12/17/04  
Prep Batch #....: 4348402  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	DETECTION		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
<hr/>				
<u>INTERNAL STANDARDS</u>	<u>PERCENT</u>	RECOVERY		
	<u>RECOVERY</u>	<u>LIMITS</u>		
1,2,3-Trichloropropane-d5	71	(25 - 150)		

**CH2M Hill Inc**

**Client Sample ID: OC2-MW3A-W-0-105**

**Trace Level Organic Compounds**

**Lot-Sample #....: G4L090480-002    Work Order #....: G0PC42AC              Matrix.....: WATER**  
**Date Sampled....: 12/08/04              Date Received...: 12/09/04**  
**Prep Date.....: 12/22/04              Analysis Date..: 12/23/04**  
**Prep Batch #....: 4357371**  
**Dilution Factor: 1**

<u>PARAMETER</u>	<u>RESULT</u>	DETECTION		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
<hr/>				
<u>INTERNAL STANDARDS</u>	<u>PERCENT</u>	RECOVERY		
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>(25 - 150)</u>	
N-Nitrosodimethylamine-d6	11 *			

**NOTE(S) :**

\* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-MW2A-W-0-106

Trace Level Organic Compounds

Lot-Sample #....: G4L090480-003 Work Order #....: G0PC51AC Matrix.....: WATER  
Date Sampled....: 12/08/04 Date Received...: 12/09/04  
Prep Date.....: 12/13/04 Analysis Date..: 12/17/04  
Prep Batch #....: 4348402  
Dilution Factor: 1

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
<hr/>				
INTERNAL STANDARDS	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
1,2,3-Trichloropropane-d5	57	(25 - 150)		

CH2M Hill Inc

Client Sample ID: OC2-MW2A-W-0-106

Trace Level Organic Compounds

Lot-Sample #....: G4L090480-003 Work Order #....: G0PC52AC Matrix.....: WATER  
Date Sampled....: 12/08/04 Date Received...: 12/09/04  
Prep Date.....: 12/22/04 Analysis Date...: 12/29/04  
Prep Batch #....: 4357371  
Dilution Factor: 1

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
N-Nitrosodimethylamine	4.3 B	2.0	ng/L	CFR136A 1625 Modi
<hr/>				
INTERNAL STANDARDS	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
N-Nitrosodimethylamine-d6	31	(25 - 150)		

NOTE(S) :

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# QC DATA ASSOCIATION SUMMARY

G4L090480

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4348402	
	WATER	CFR136A 1625 Modi		4357371	
002	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4348402	
	WATER	CFR136A 1625 Modi		4357371	
003	WATER	MCAWW 410.4		4349279	4349172
	WATER	CFR136A 1625 Modi		4348402	
	WATER	CFR136A 1625 Modi		4357371	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G4L090480      Work Order #...: G0XDP1AA      Matrix.....: WATER  
MB Lot-Sample #: G4L130000-402  
Analysis Date...: 12/29/04      Prep Date.....: 12/13/04  
Dilution Factor: 1      Prep Batch #: 4348402

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
<hr/>				
INTERNAL STANDARDS	PERCENT	RECOVERY	LIMITS	
	RECOVERY	LIMITS		
1,2,3-Trichloropropane-d5	93	(25 - 150)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #....: G4L090480      Work Order #....: G1NWF1AA      Matrix.....: WATER  
MB Lot-Sample #: G4L220000-371      Prep Date.....: 12/22/04  
Analysis Date..: 12/29/04      Prep Batch #....: 4357371  
Dilution Factor: 1

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
N-Nitrosodimethylamine	18	2.0	ng/L	CFR136A 1625 Modi
<hr/>				
INTERNAL STANDARDS	PERCENT	RECOVERY		
	RECOVERY	LIMITS		
N-Nitrosodimethylamine-d6	31	(25 - 150)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**Trace Level Organic Compounds**

Client Lot #....: G4L090480      Work Order #....: G0XDP1AC      Matrix.....: WATER  
LCS Lot-Sample#: G4L130000-402  
Prep Date.....: 12/13/04      Analysis Date...: 12/29/04  
Prep Batch #:....: 4348402  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
1,2,3-Trichloropropane	94	(50 - 150)	CFR136A 1625 Modifie

<u>INTERNAL STANDARD</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
1,2,3-Trichloropropane-d5	100	(25 - 150)
N-Nitrosodimethylamine-d6	6.2 *	(25 - 150)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

\* Surrogate recovery is outside stated control limits.

## LABORATORY CONTROL SAMPLE DATA REPORT

## Trace Level Organic Compounds

**Client Lot #...** G4L090480    **Work Order #...** G0XDP1AC    **Matrix.....** WATER  
**LCS Lot-Sample#:** G4L130000-402  
**Prep Date.....** 12/13/04    **Analysis Date..** 12/29/04  
**Prep Batch #...** 4348402  
**Dilution Factor:** 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u> <u>ng/L</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
1,2,3-Trichloropropane	100	94.0		94	CFR136A 1625

<u>INTERNAL STANDARD</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
1,2,3-Trichloropropane-d5	100	(25 - 150)
N-Nitrosodimethylamine-d6	6.2 *	(25 - 150)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

\* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G4L090480      Work Order #....: G1NWF1AC      Matrix.....: WATER  
LCS Lot-Sample#: G4L220000-371  
Prep Date.....: 12/22/04      Analysis Date...: 12/29/04  
Prep Batch #....: 4357371  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
N-Nitrosodimethylamine	119	(70 - 130)	CFR136A 1625 Modifie

<u>INTERNAL STANDARD</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
N-Nitrosodimethylamine-d6	31	(25 - 150)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## Trace Level Organic Compounds

**Client Lot #....:** G4L090480      **Work Order #....:** G1NWF1AC      **Matrix.....:** WATER  
**LCS Lot-Sample#:** G4L220000-371  
**Prep Date.....:** 12/22/04      **Analysis Date..:** 12/29/04  
**Prep Batch #....:** 4357371  
**Dilution Factor:** 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>PERCENT RECOVERY</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
N-Nitrosodimethylamine	100	119	ng/L	119	CFR136A 1625

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
N-Nitrosodimethylamine-d6	31	(25 - 150)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## **Raw Data Package**

## **Run/Batch Data**

***Includes (as applicable):***

***runlogs***

***continuing calibration standards***

***interference/performance check standards***

***continuing calibration blanks***

***method blanks***

***Ics***

***ms/sd***

***sample raw data***

***ms tune data***

## Quantitation Summary

STL

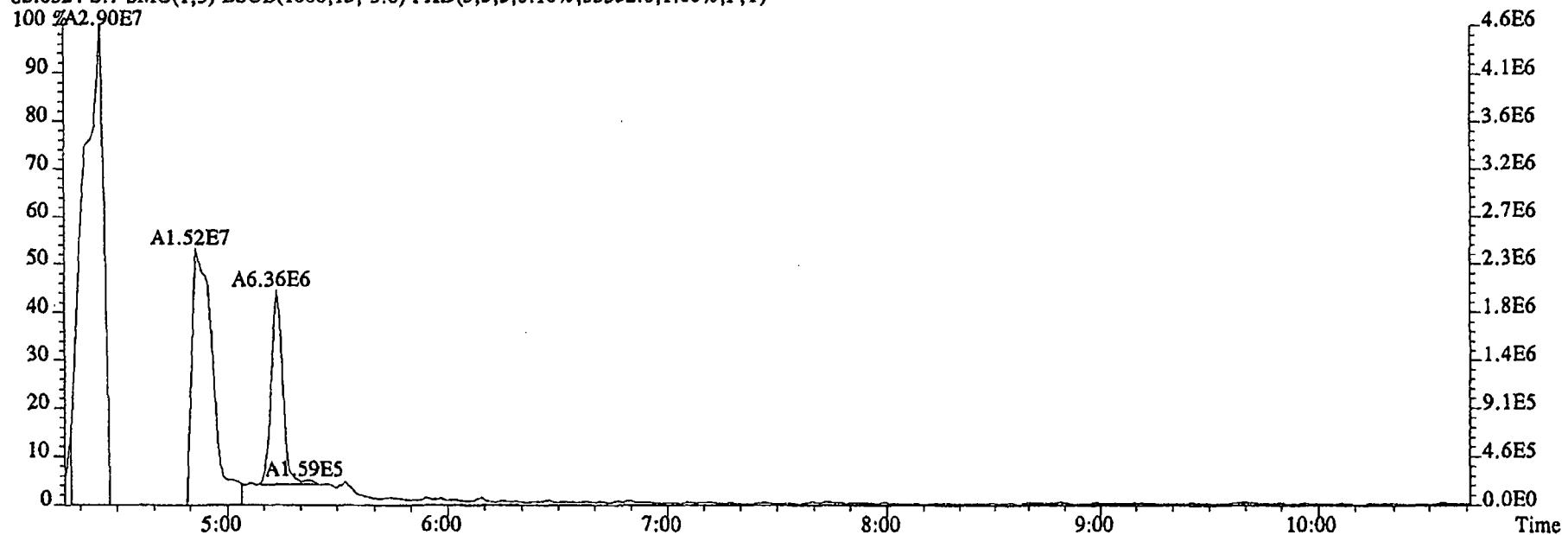
Page 1 of

Run text: G0XDP-1-AAB      Sample text: G0XDP-1-AAB :G4L080479-1MB  
 Run #6    Filename: 29DE045SP    S: 7    I: 1    Results: 29DE045SP1625  
 Acquired: 29-DEC-04 15:33:45      Processed: 29-DEC-04 21:42:51  
 Run: 29DE045SP      Analyte: 1625      Cal: 16251229045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 1.000    L

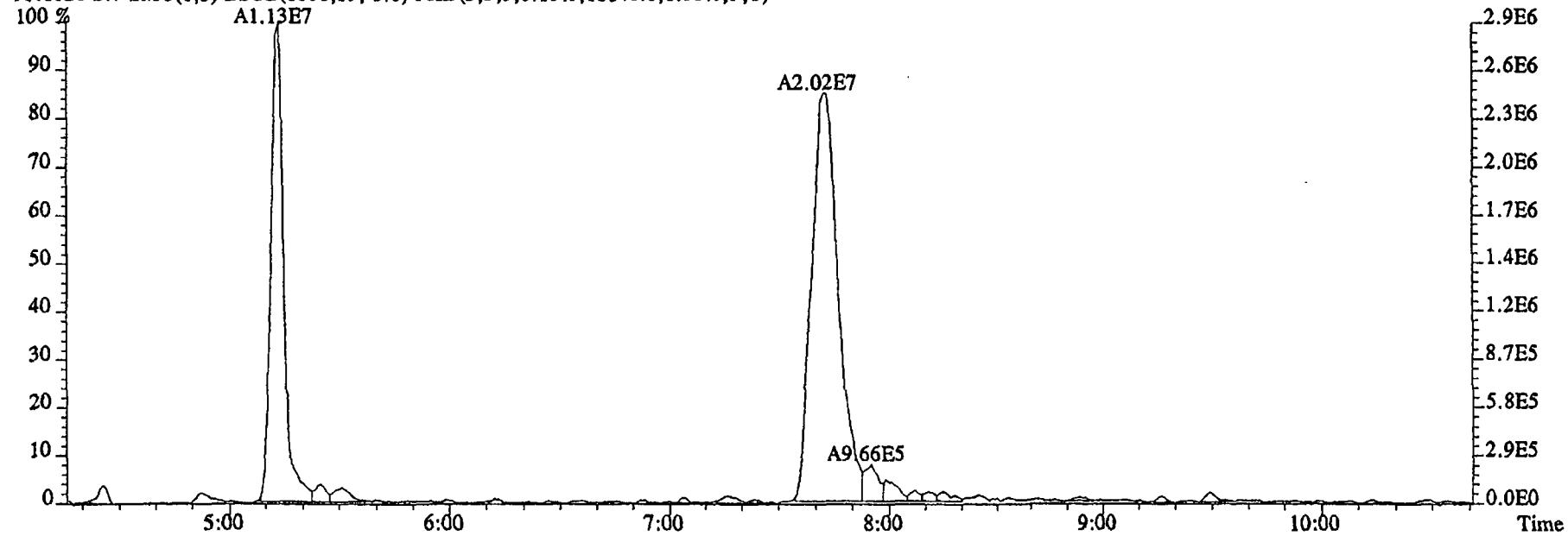
Name	Resp	RA	RT	RRF	Conc	n	EDL	Rec	M
2-Chloropyridine	40894100		11:07	-	220.10		-	-	n
D8-1,4-Dioxane	11301700		5:14	1.11	49.83		0.70	5.0	n
1,4-Dioxane	6360660		5:14	1.89	297.84		19.59	-	n
D5-123-TriChloroPropane	50951900		10:03	2.68	92.81		0.11	92.8	n
1,2,3-TriChloroPropane	*		Not Fnd	0.44	*	15.0	3.21	-	n
1,2,3-TriChloroPropane	*		Not Fnd	-	*		-	-	n
D6-NDMA	7297420		10:13	1.68	21.21		0.03	21.2	n
NDMA	2185960		10:12	1.37	21.90	N/A	6.15	-	n
2-Chloropyridine	125663000		11:07	-	213.69		-	-	n

125663000

File:29DE045SP #1-475 Acq:29-DEC-2004 15:33:45 GC EI+ Voltage SIR 70SE  
Sample#7 Text:G0XDP-1-AAB :G4L080479-1MB Exp:NDMAVOA  
88.0524 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35532.0,1.00%,F,T)  
100 %A2.90E7



96.1026 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16140.0,1.00%,F,T)

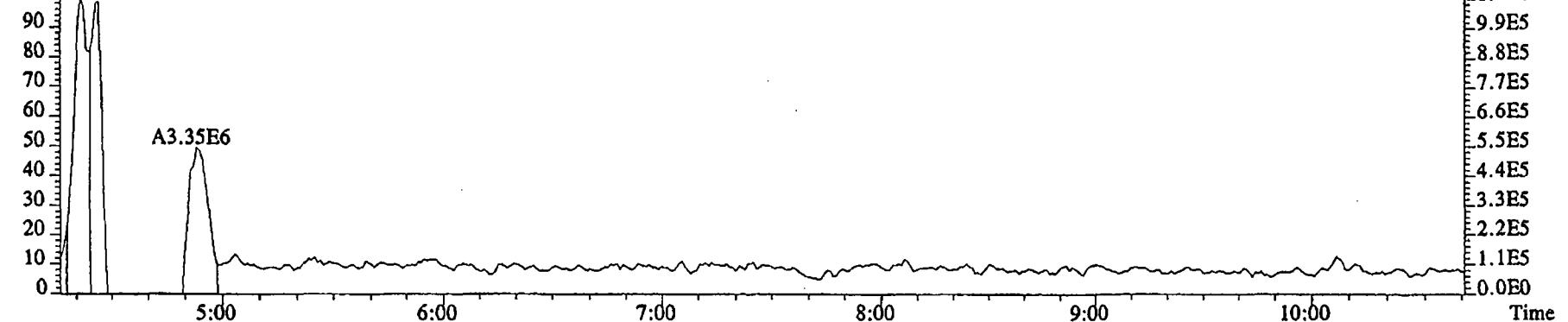


File:29DE045SP #1-475 Acq:29-DEC-2004 15:33:45 GC EI+ Voltage SIR 70SE

Sample#7 Text:G0XDP-1-AAB :G4L080479-1MB Exp:NDMAVOA

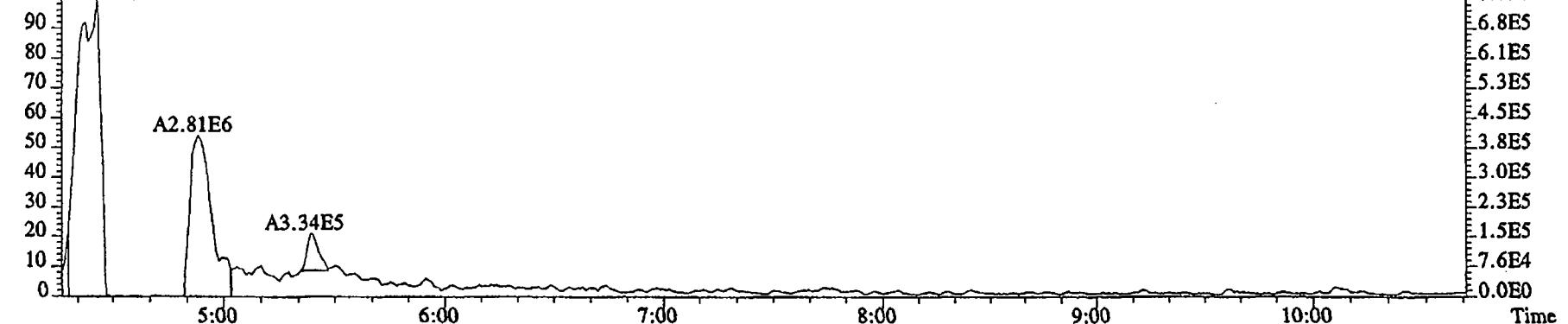
75.0002 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,121352.0,1.00%,F,T)

100 %A5.00E6



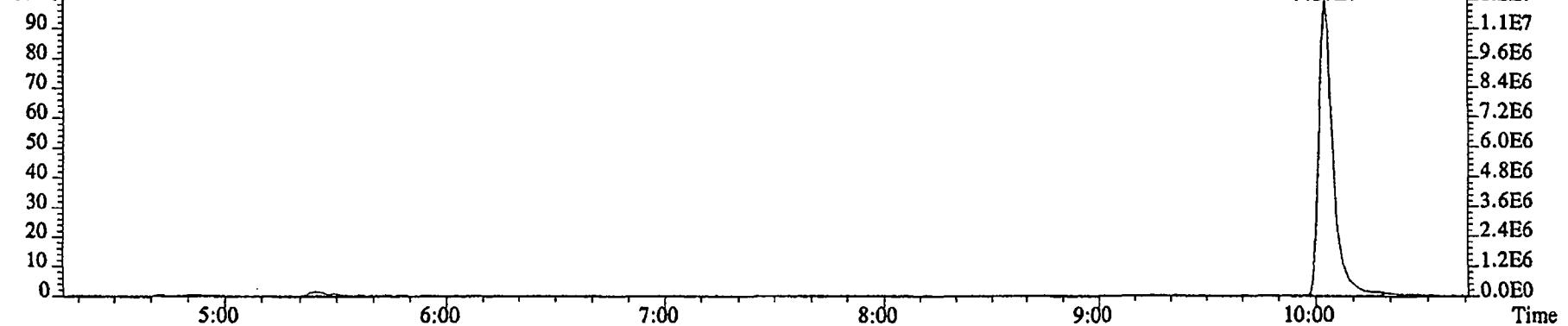
76.9972 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56184.0,1.00%,F,T)

100 %A5.48E6

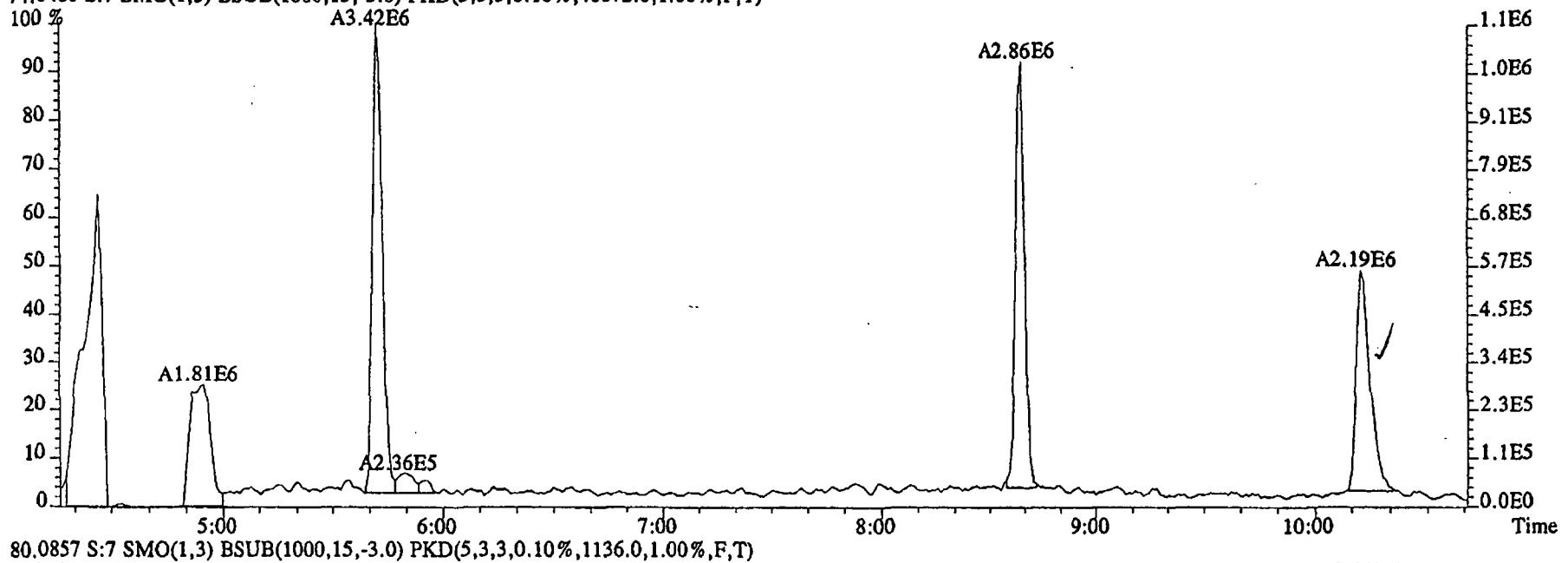


79.0253 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6096.0,1.00%,F,T)

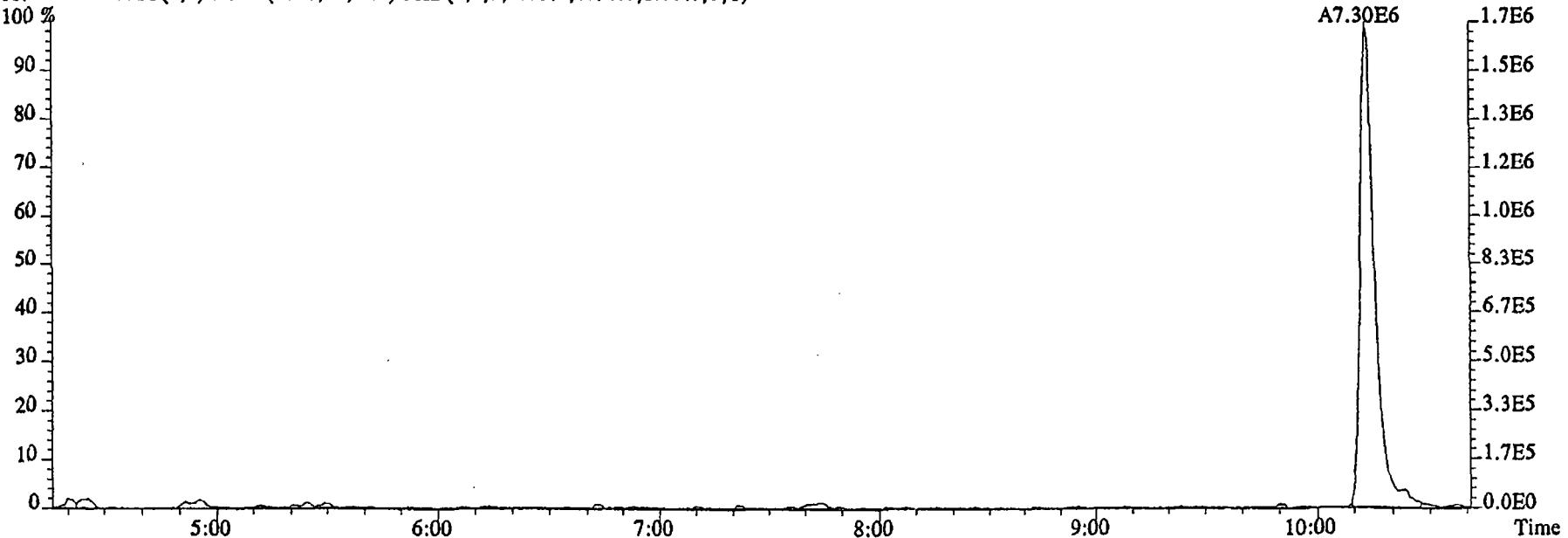
100 %



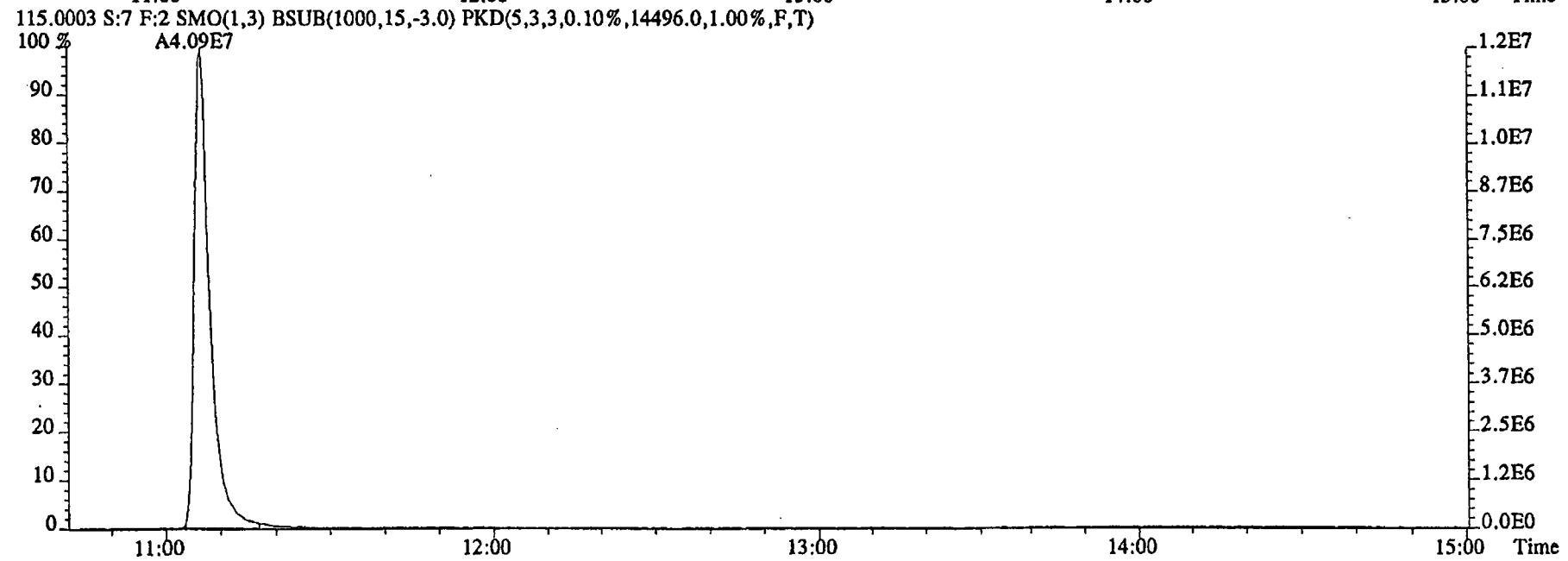
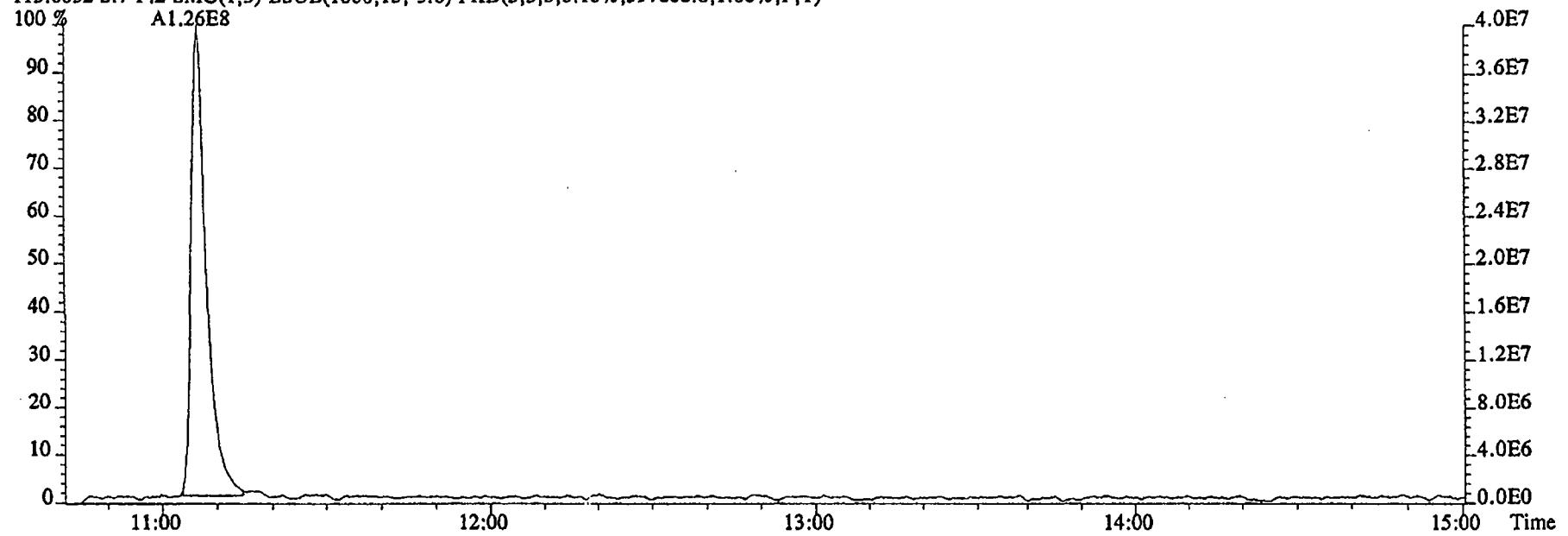
File:29DE045SP #1-475 Acq:29-DEC-2004 15:33:45 GC EI+ Voltage SIR 70SE  
Sample#7 Text:G0XDP-1-AAB :G4L080479-1MB Exp:NDMAVOA  
74.0480 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,46672.0,1.00%,F,T)



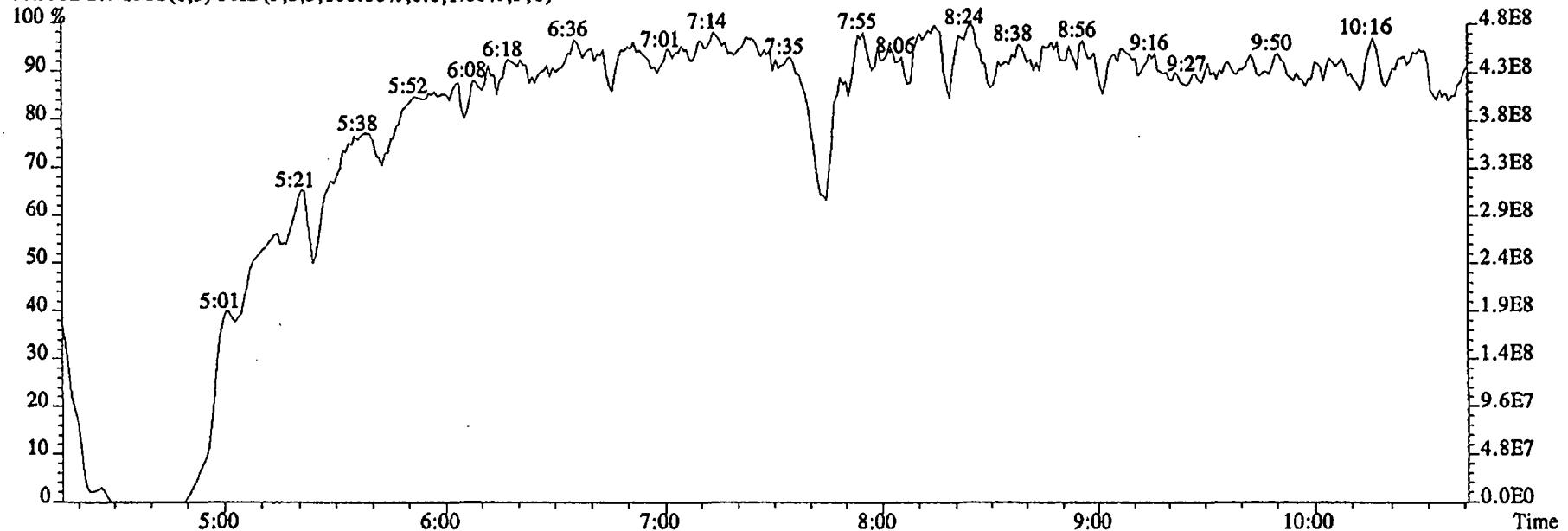
80.0857 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1136.0,1.00%,F,T)



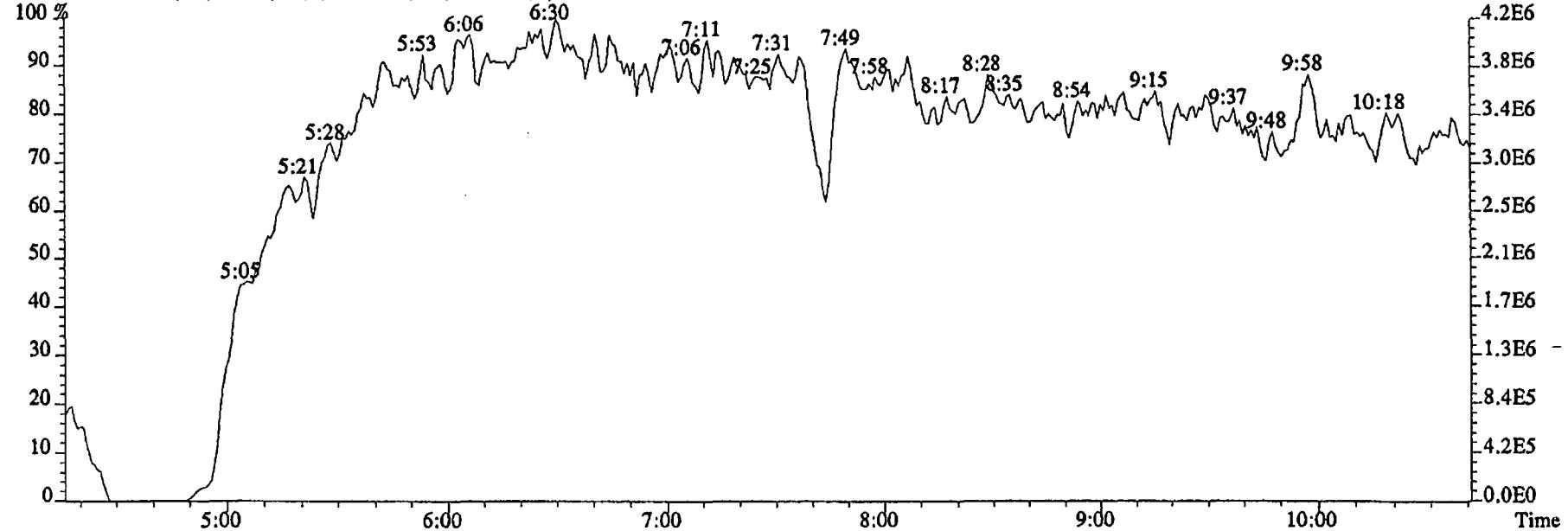
File:29DE04SSP #1-602 Acq:29-DEC-2004 15:33:45 GC EI+ Voltage SIR 70SE  
Sample#7 Text:G0XDP-1-AAB :G4L080479-1MB Exp:NDMAVOA  
113.0032 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,597808.0,1.00%,F,T)



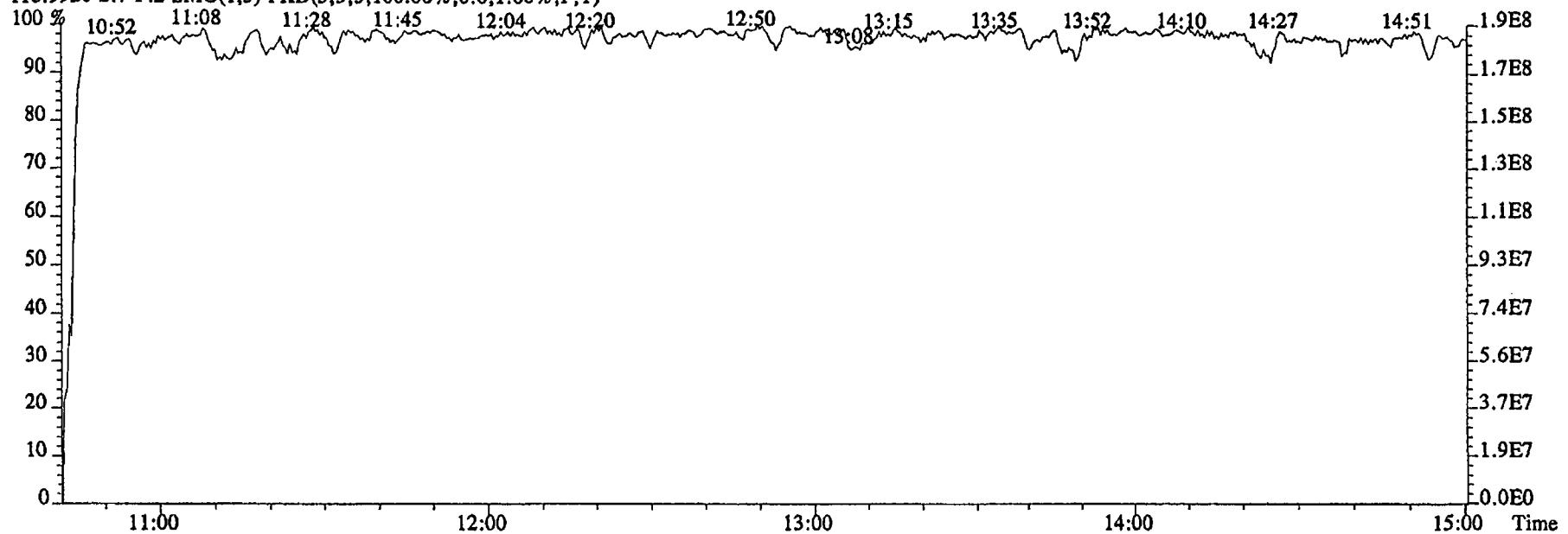
File:29DE045SP #1-475 Acq:29-DEC-2004 15:33:45 GC EI+ Voltage SIR 70SE  
Sample#7 Text:G0XDP-1-AAB :G4L080479-1MB Exp:NDMAVOA  
68.9952 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



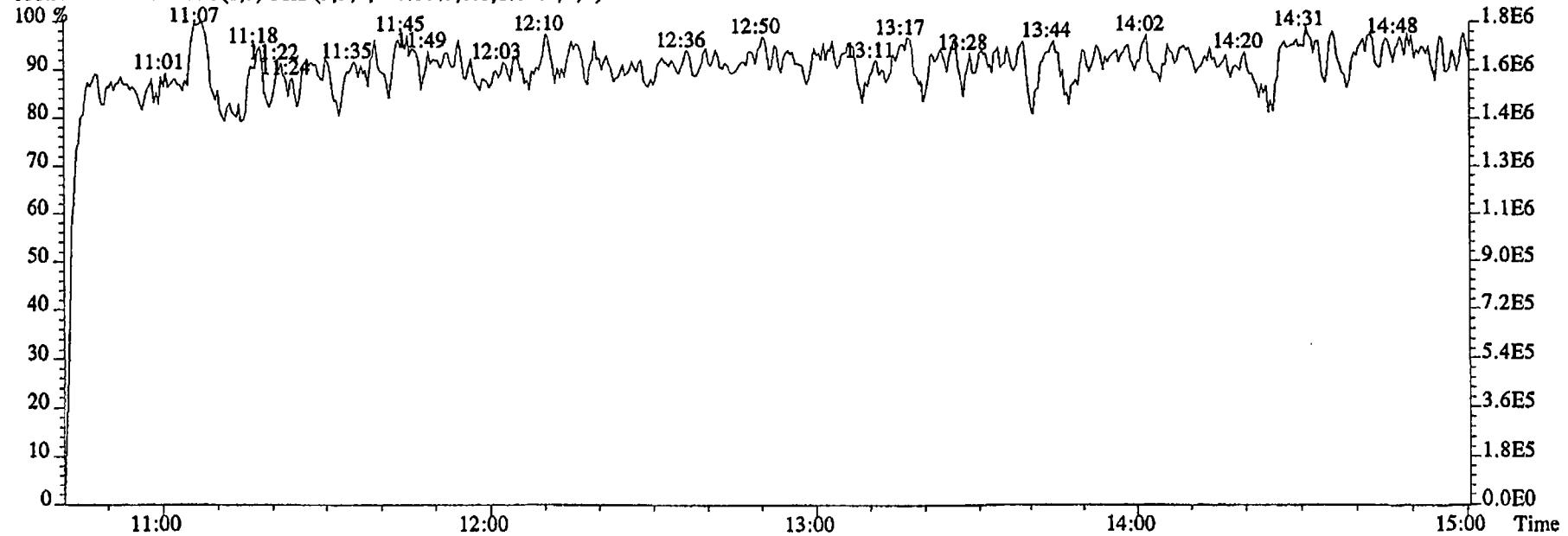
80.9952 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-602 Acq:29-DEC-2004 15:33:45 GC EI+ Voltage SIR 70SE  
Sample#7 Text:GOXDP-1-AAB :G4L080479-1MB Exp:NDMAVOA  
118.9920 S:7 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:7 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

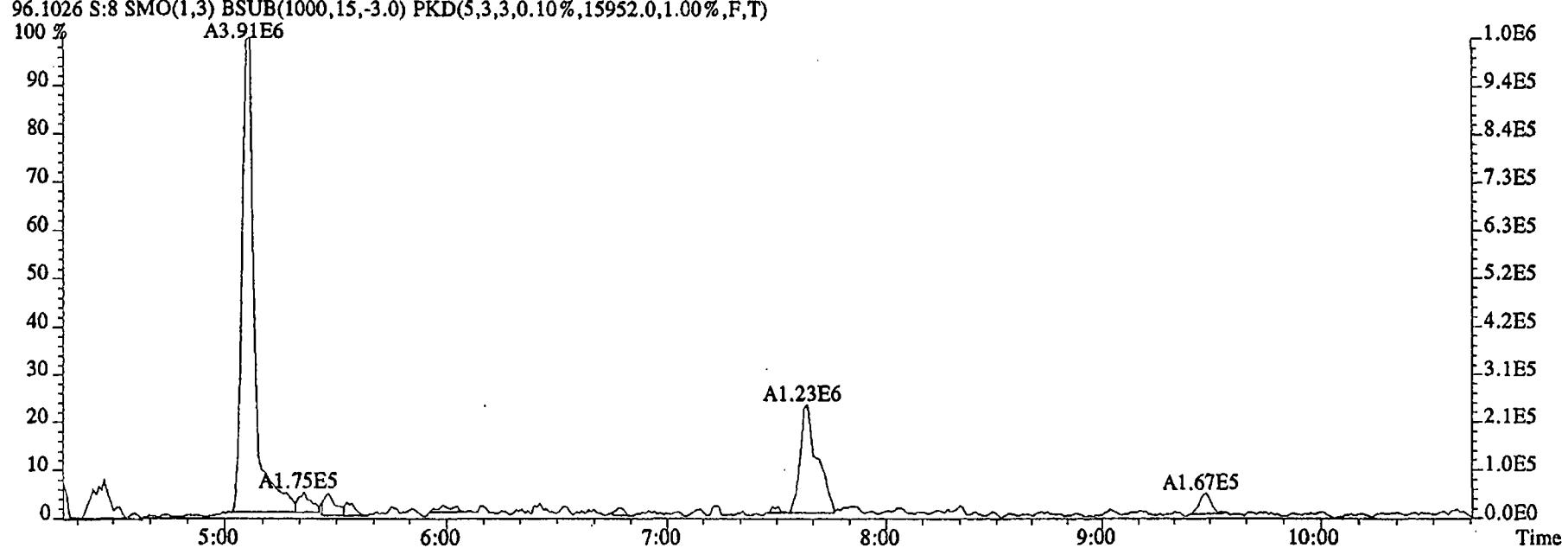
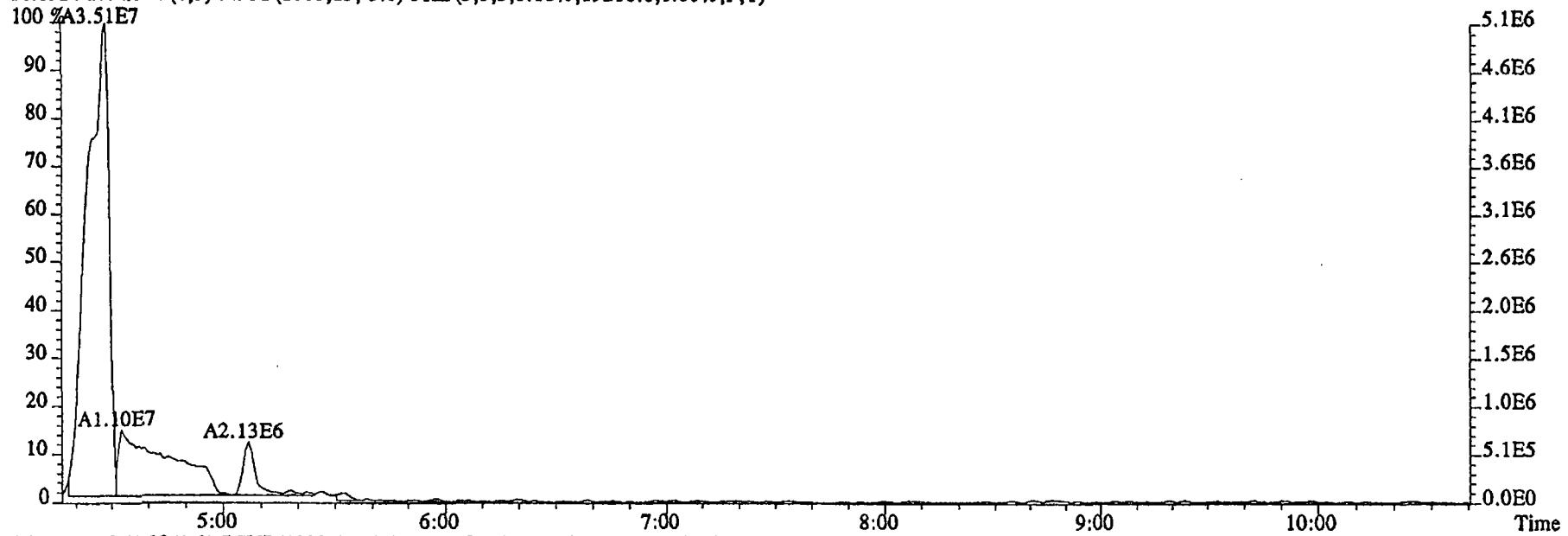


Run text: G0XDP-1-ACC      Sample text: G0XDP-1-ACC :G4L080479-1LCS  
 Run #7    Filename: 29DE045SP    S: 8    I: 1    Results: 29DE045SP1625  
 Acquired: 29-DEC-04 15:54:11      Processed: 29-DEC-04 21:42:52  
 Run: 29DE045SP      Analyte: 1625      Cal: 16251229045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 1.000    L

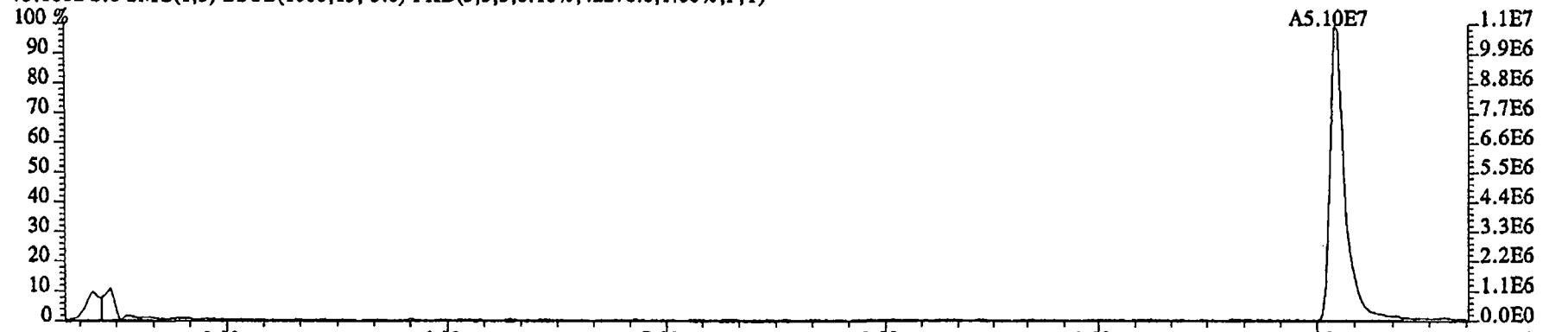
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	28225000		11:06	-	151.91	-	-	n
D8-1,4-Dioxane	3913930		5:07	1.11	25.00	1.03	2.5	n
1,4-Dioxane	2129150		5:07	1.89	287.88	29.54	-	n
D5-123-TriChloroPropane	38076300		10:01	2.68	100.49	0.15	100.5	n
1,2,3-TriChloroPropane	15709300		10:05	0.44	93.98 ✓	0.74	-	n
1,2,3-TriChloroPropane	51042500		10:05	-	76.58	-	-	n
D6-NDMA	1472770		10:12	1.68	6.20	0.03	6.2	n
NDMA	2934310		10:11	1.37	145.67 ✓	17.41	-	n
2-Chloropyridine	86886400		11:06	-	147.75	-	-	n

12-3604  
✓

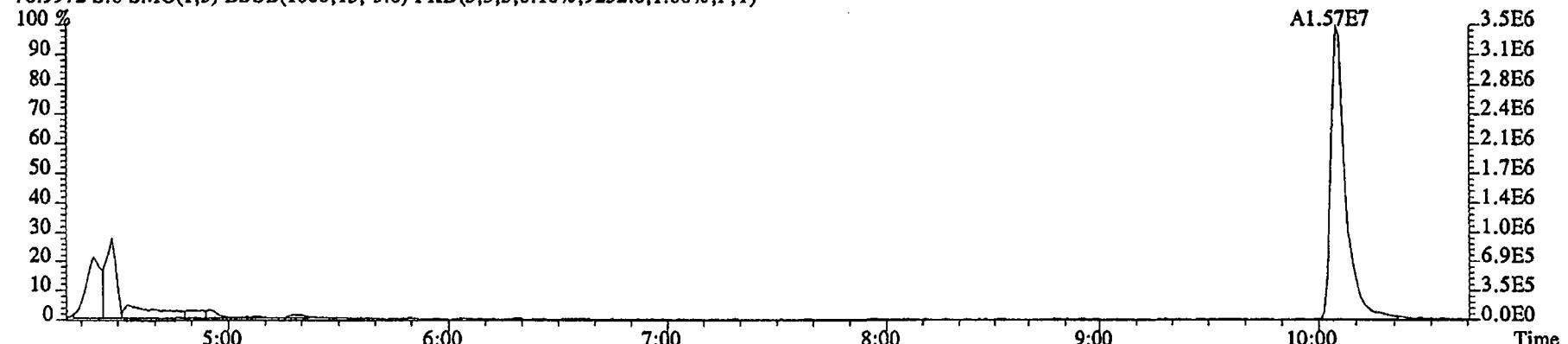
File:29DE04SSP #1-474 Acq:29-DEC-2004 15:54:11 GC EI+ Voltage SIR 70SE  
Sample#8 Text:G0XDP-1-ACC :G4L080479-1LCS Exp:NDMAVOA  
88.0524 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19216.0,1.00%,F,T)



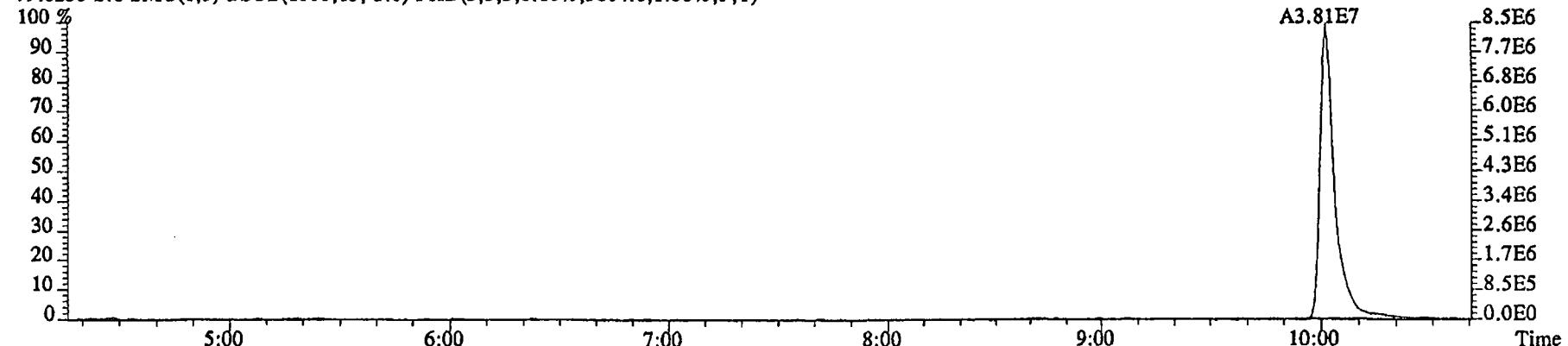
File:29DE045SP #1-474 Acq:29-DEC-2004 15:54:11 GC EI+ Voltage SIR 70SE  
Sample#8 Text:G0XDP-1-ACC :G4L080479-1LCS Exp:NDMAVOA  
75.0002 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,42276.0,1.00%,F,T)



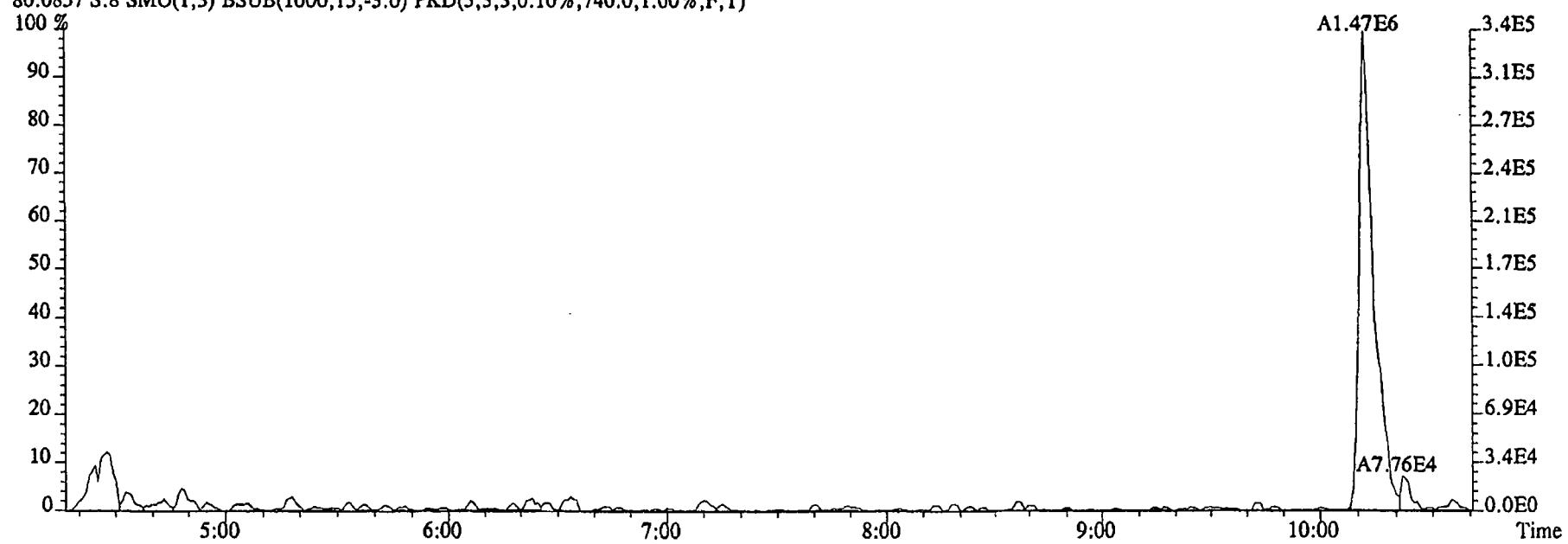
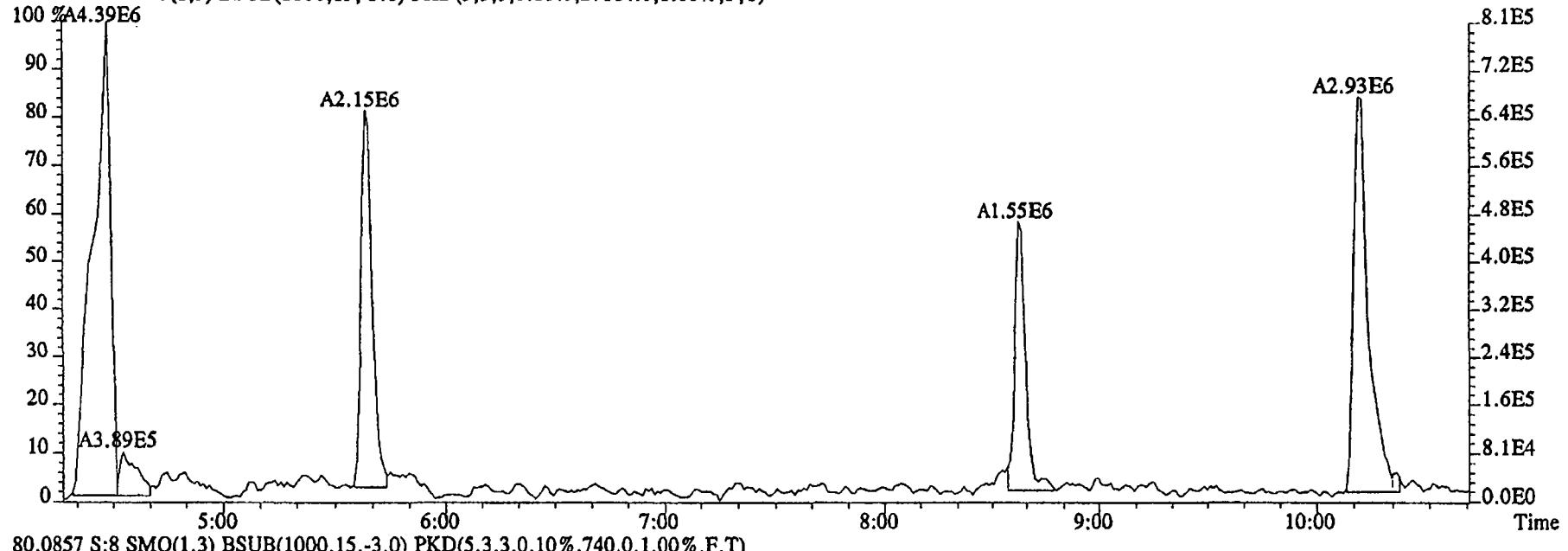
76.9972 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9252.0,1.00%,F,T)



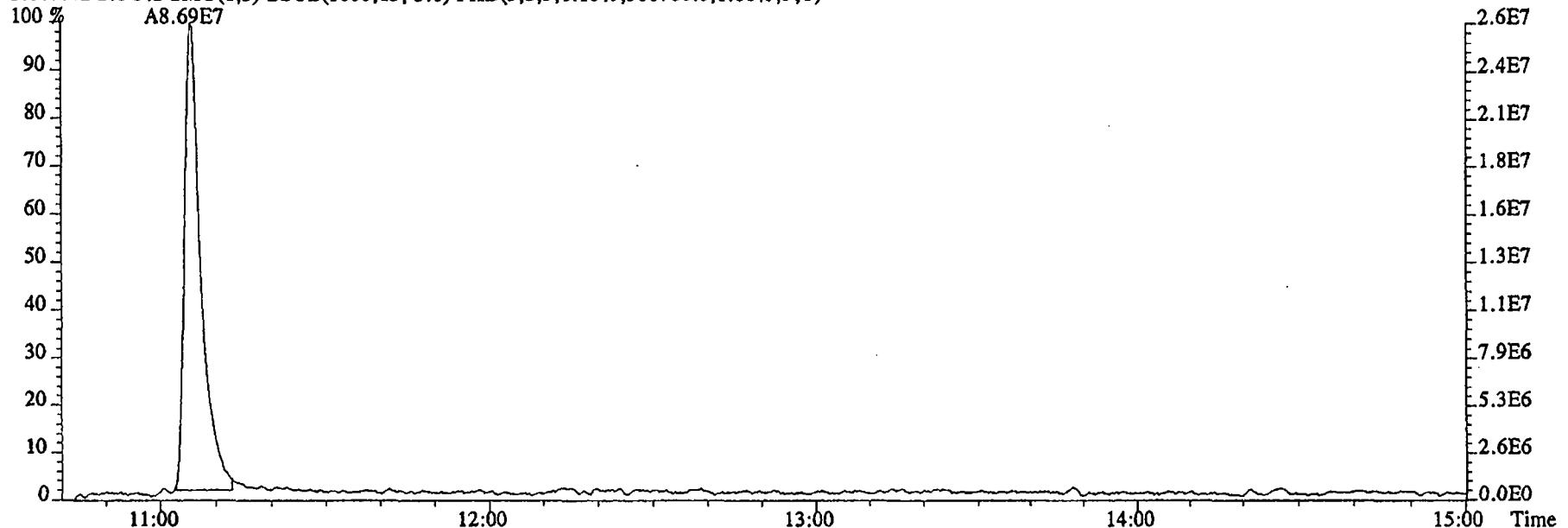
79.0253 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5604.0,1.00%,F,T)



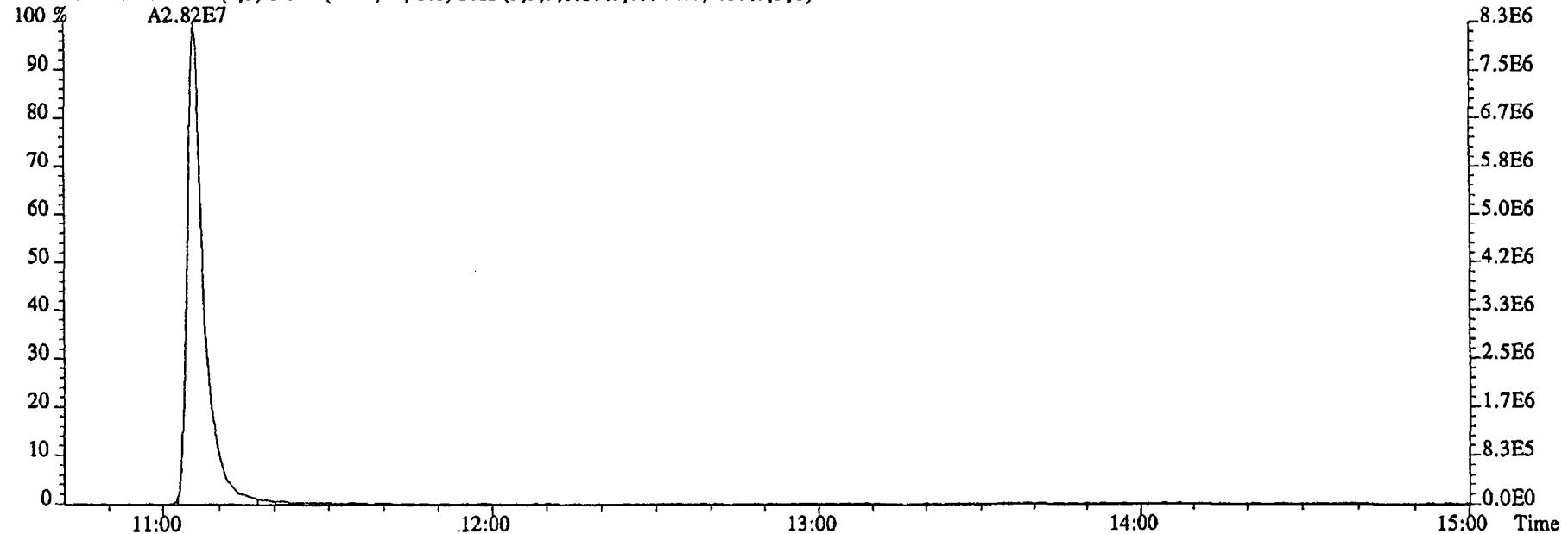
File:29DE045SP #1-474 Acq:29-DEC-2004 15:54:11 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:G0XDP-1-ACC :G4L080479-1LCS Exp:NDMAVOA  
 74.0480 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27184.0,1.00%,F,T)



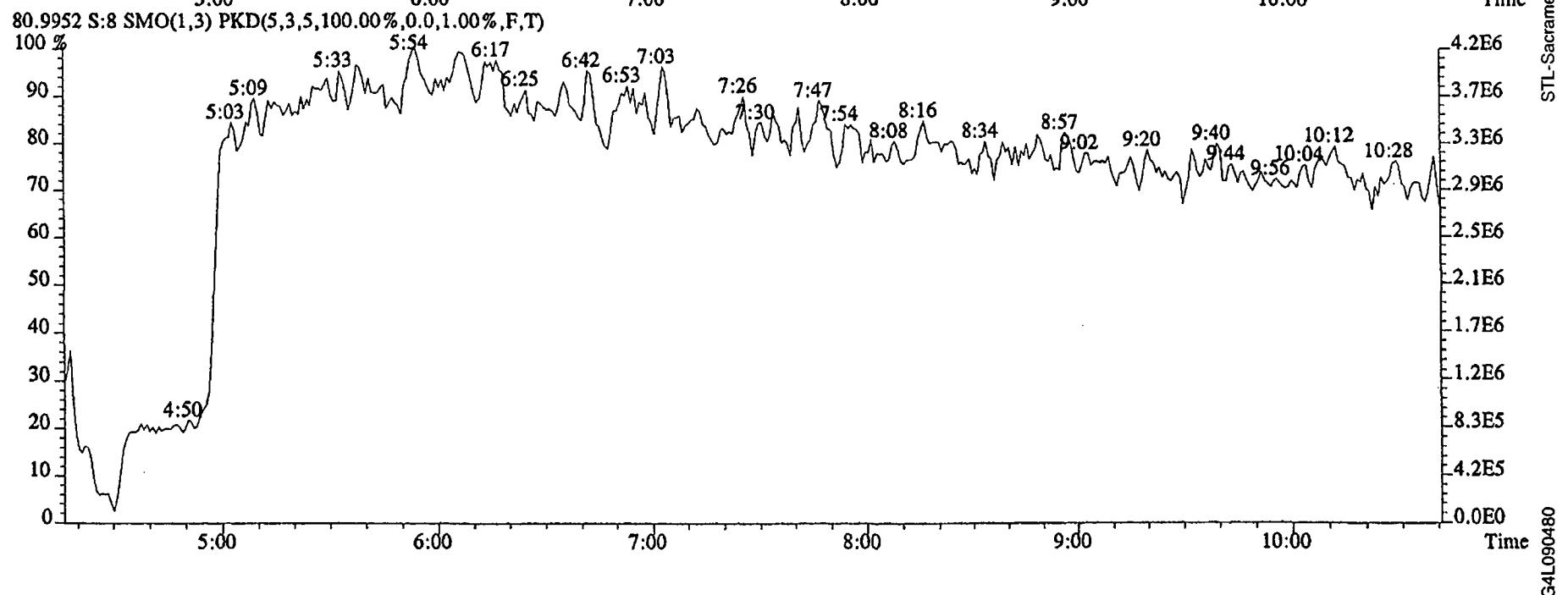
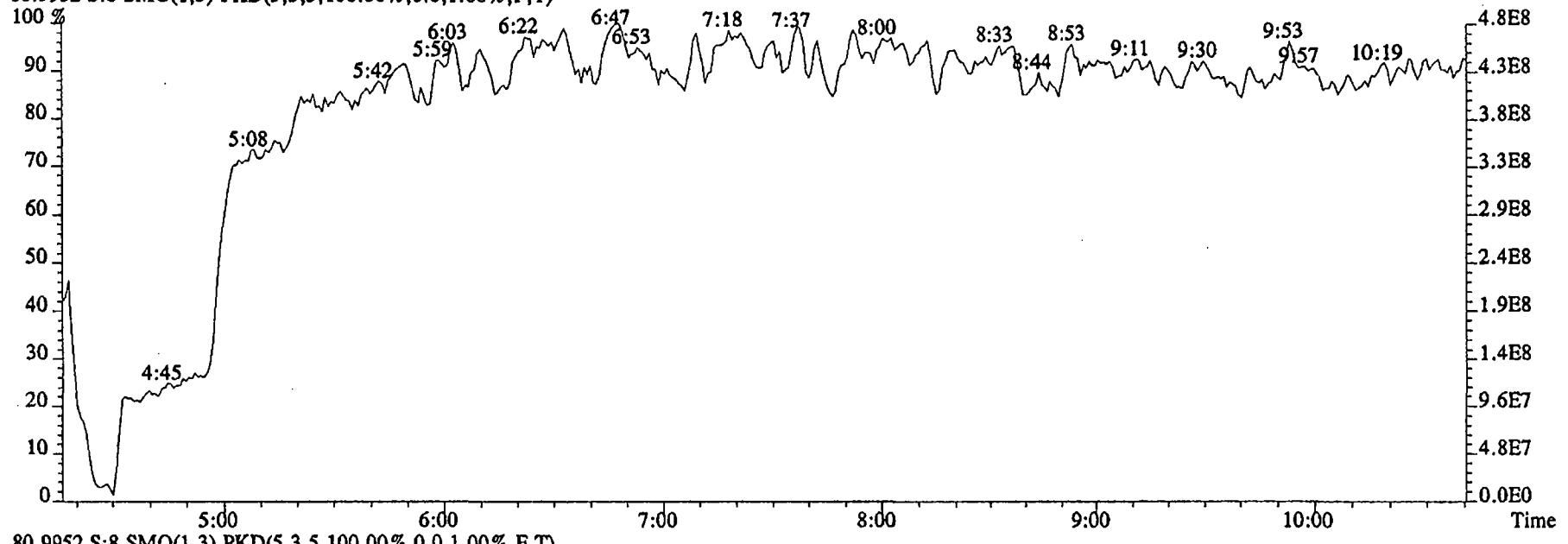
File:29DE045SP #1-602 Acq:29-DEC-2004 15:54:11 GC EI+ Voltage SIR 70SE  
Sample#8 Text:GOXDP-1-ACC :G4L080479-1LCS Exp:NDMAVOA  
113.0032 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,568760.0,1.00%,F,T)



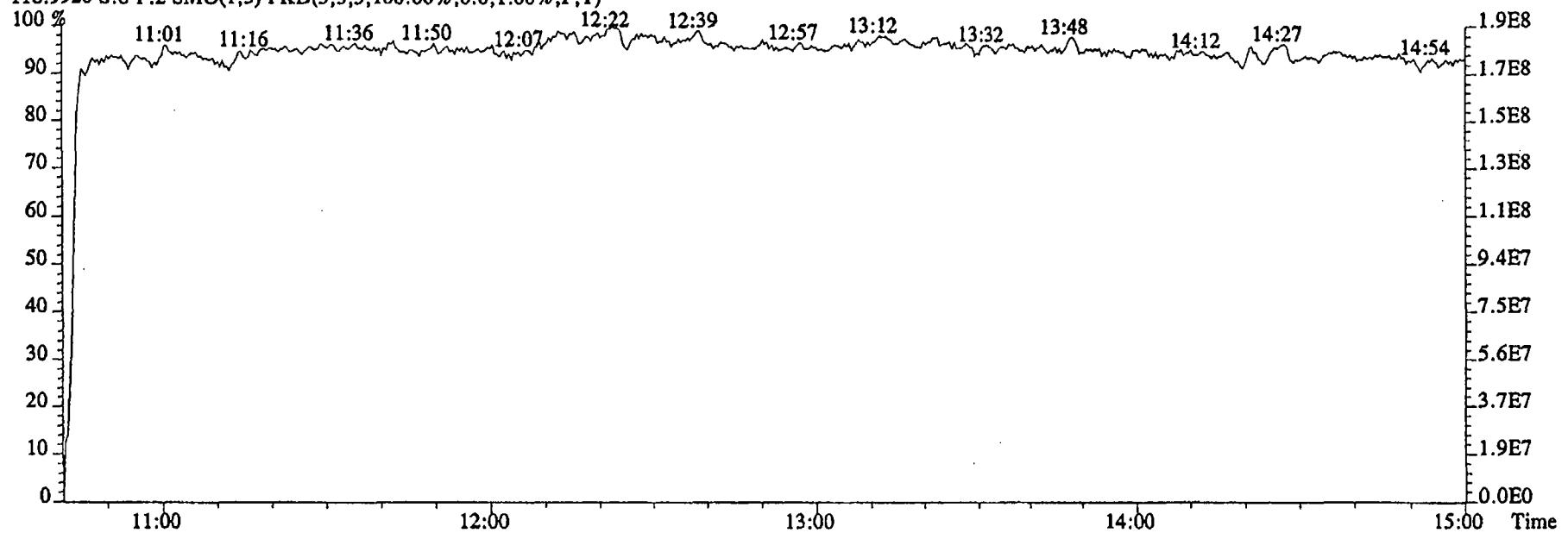
115.0003 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15364.0,1.00%,F,T)



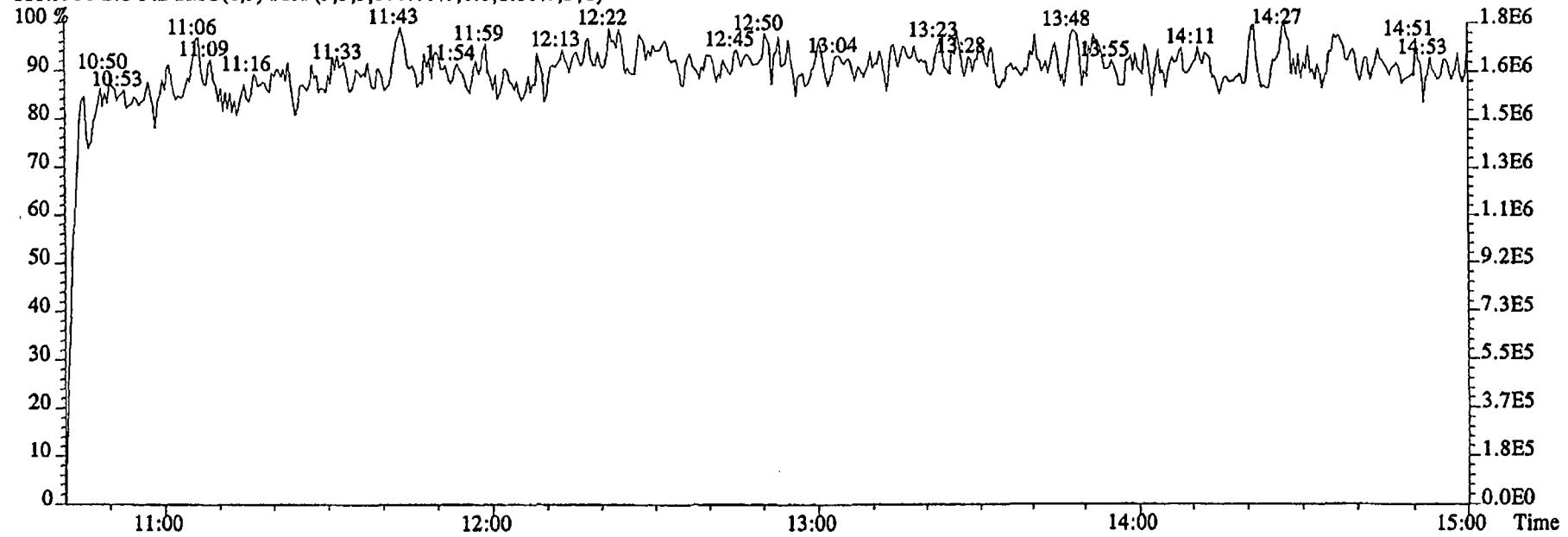
File:29DE045SP #1-474 Acq:29-DEC-2004 15:54:11 GC EI + Voltage SIR 70SE  
 Sample#8 Text:G0XDP-1-ACC :G4L080479-1LCS Exp:NDMAVOA  
 68.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-602 Acq:29-DEC-2004 15:54:11 GC El+ Voltage SIR 70SE  
Sample#8 Text:G0XDP-1-ACC :G4L080479-1LCS Exp:NDMAVOA  
118.9920 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

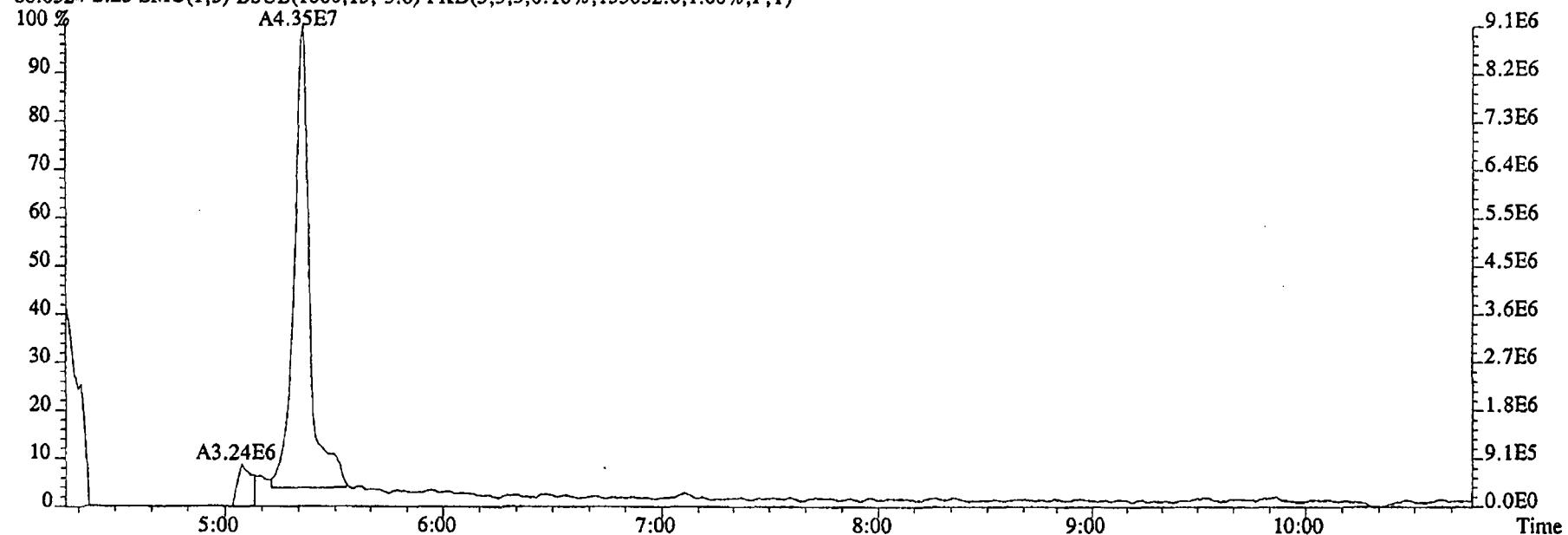


Run text: G0PC2-1-AC      Sample text: G0PC2-1-AC :G4L090480-1  
 Run #21 Filename: 16DE045SP    S: 23    I: 1    Results: KAS  
 Acquired: 17-DEC-04 02:05:31      Processed: 17-DEC-04 13:47:41  
 Run: KAS      Analyte: 1625      Cal: 16251216045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.966    L

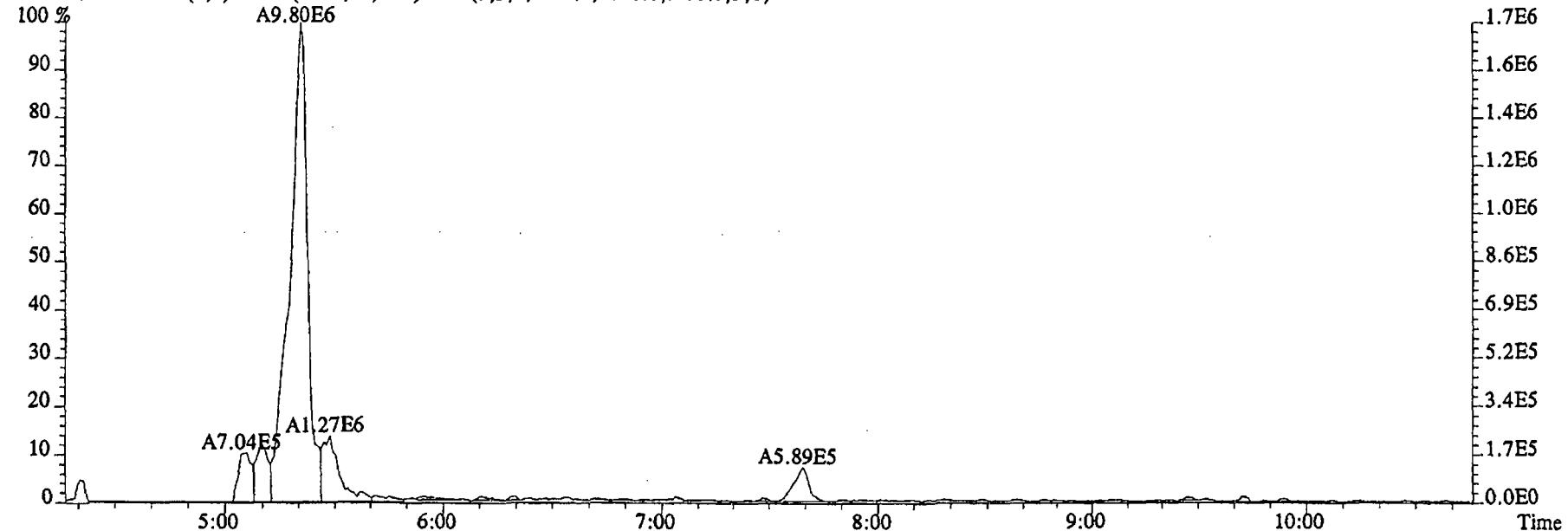
Name	Resp	RA	RT	RRF	Conc	<i>er</i>	EDL	Rec	M
2-Chloropyridine	156334000		11:05	-	329.97		-	-	n
D8-1,4-Dioxane	703724		5:06	0.66	1.42		0.13	0.1	n
1,4-Dioxane	3241010		5:04	1.05	4521.09		2580.46	-	n
D5-123-TriChloroPropane	122692000		10:02	2.35	69.11		0.07	66.8	n
1,2,3-TriChloroPropane	692007		10:05	0.48	1.21	65.0	0.29	-	n
1,2,3-TriChloroPropane	1975140		10:06	-	1.25		-	-	n
D6-NDMA	20000700		10:12	1.48	17.88		0.07	17.3	n
NDMA	7938740		10:11	1.37	29.91	N/A	6.94	-	n
2-Chloropyridine	492910000		11:05	-	325.54		-	-	n

12-30-04  
or

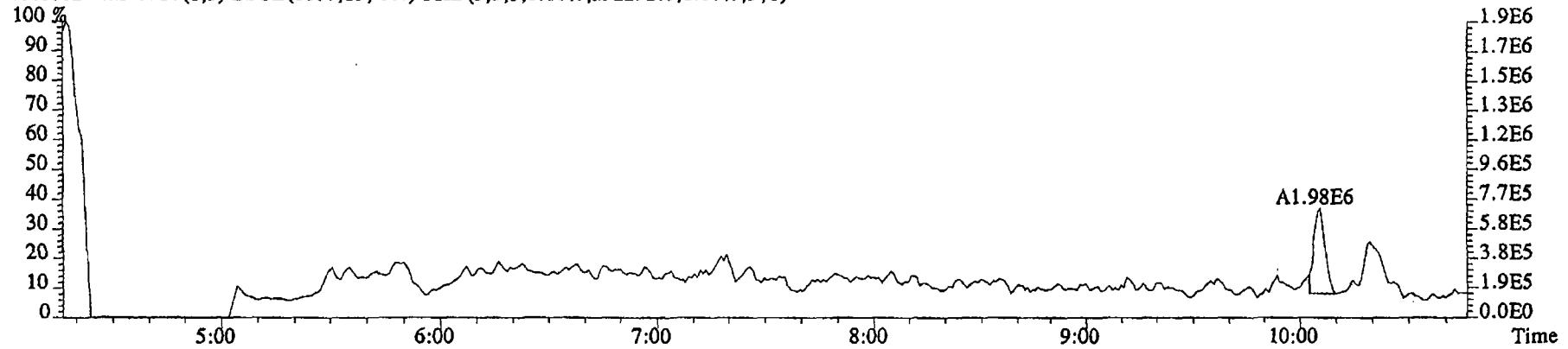
File:16DE045SP #1-480 Acq:17-DEC-2004 02:05:31 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-1-AC :G4L090480-1 Exp:NDMAVOA  
88.0524 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,155032.0,1.00%,F,T)



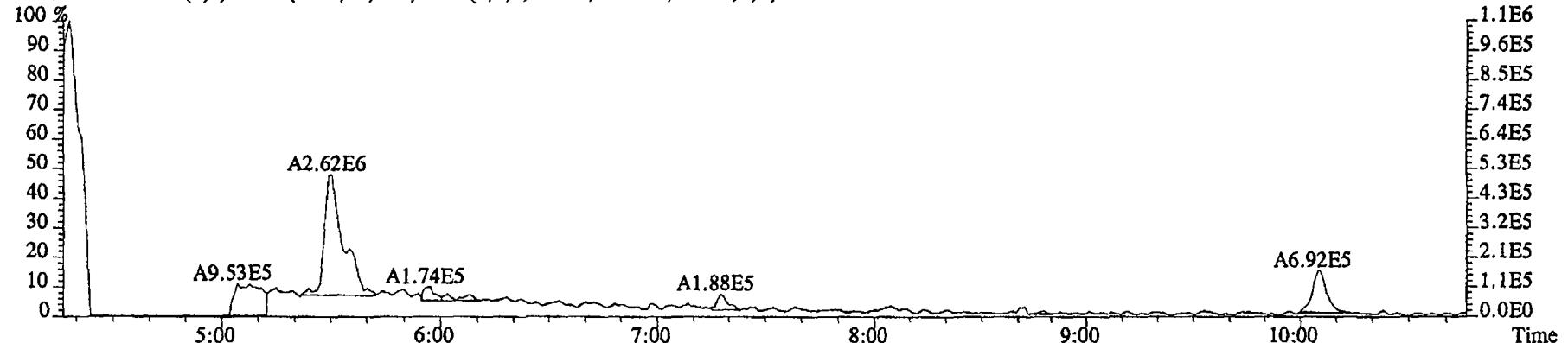
96.1026 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7048.0,1.00%,F,T)



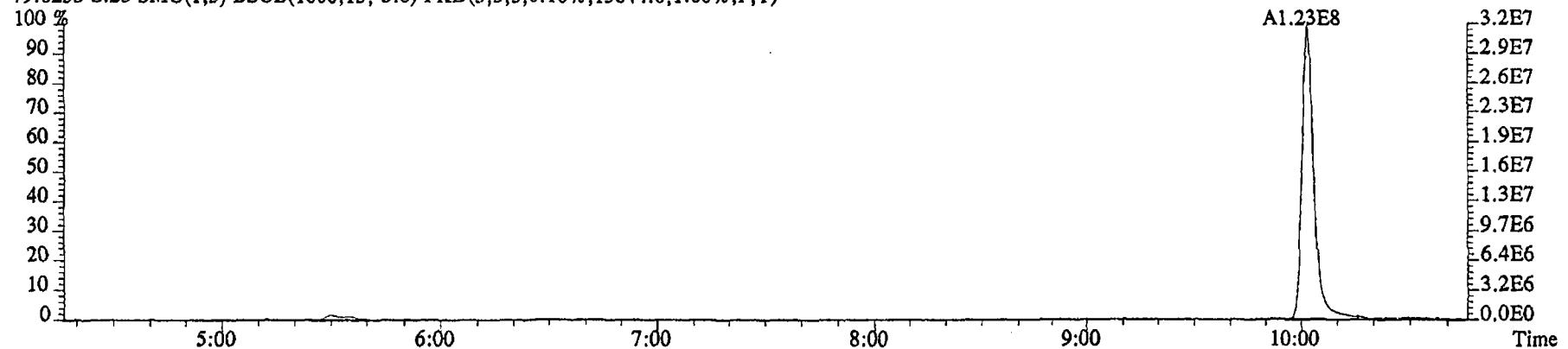
File:16DE045SP #1-480 Acq:17-DEC-2004 02:05:31 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:G0PC2-1-AC :G4L090480-1 Exp:NDMAVOA  
 75.0002 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,292292.0,1.00%,F,T)



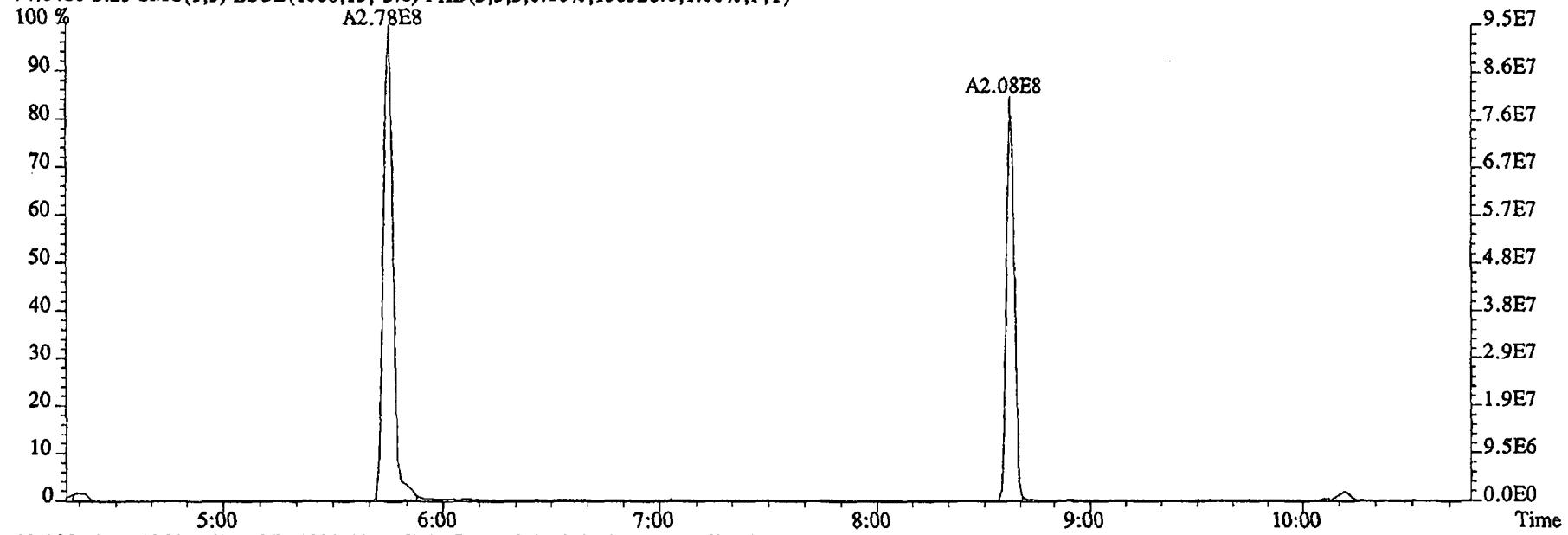
76.9972 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14732.0,1.00%,F,T)



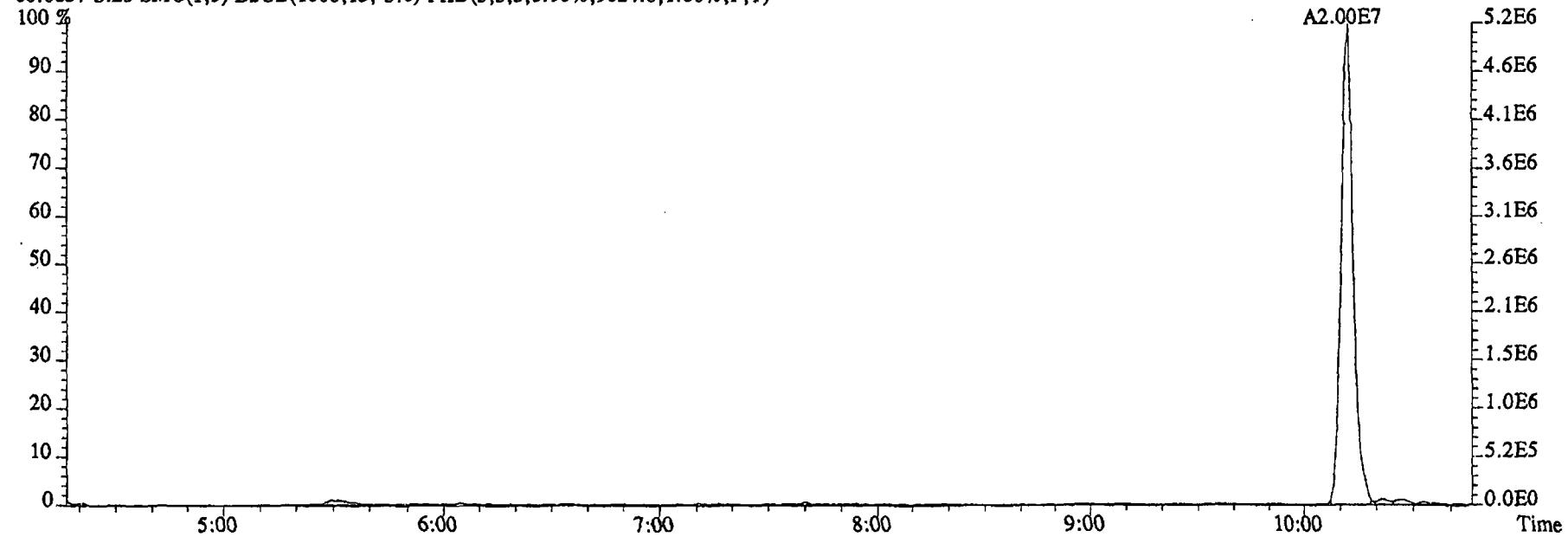
79.0253 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13644.0,1.00%,F,T)



File:16DE045SP #1-480 Acq:17-DEC-2004 02:05:31 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-1-AC :G4L090480-1 Exp:NDMAVOA  
74.0480 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,158528.0,1.00%,F,T)



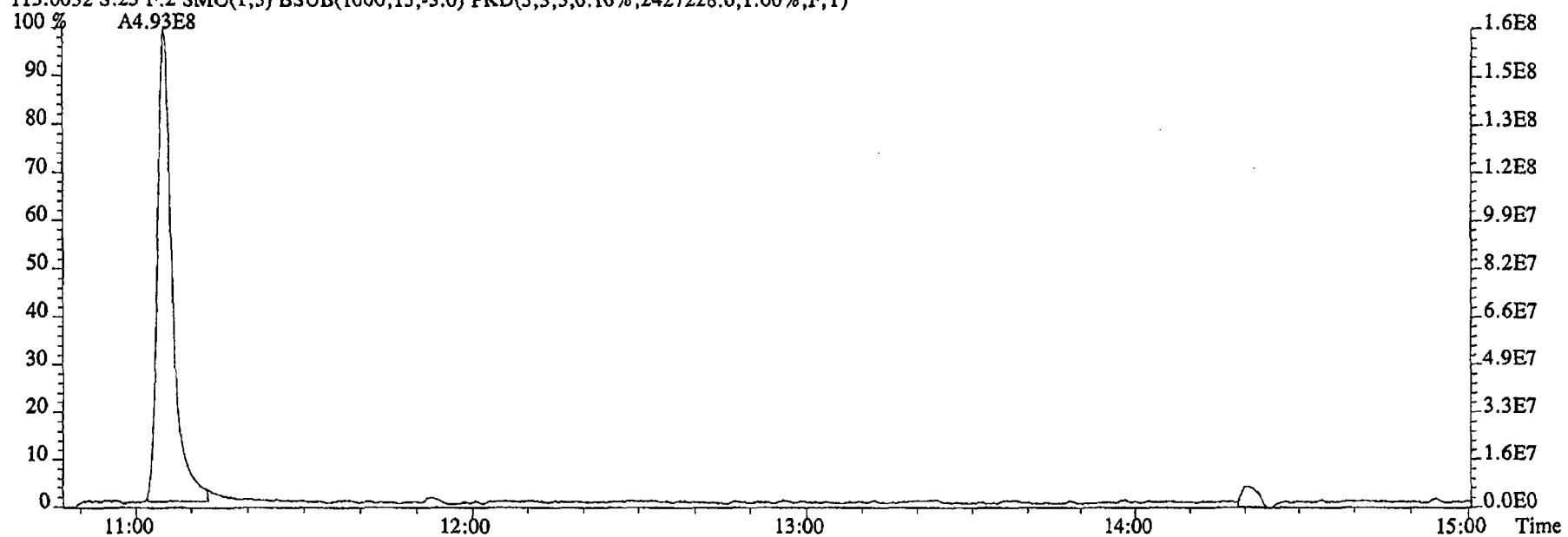
80.0857 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9024.0,1.00%,F,T)



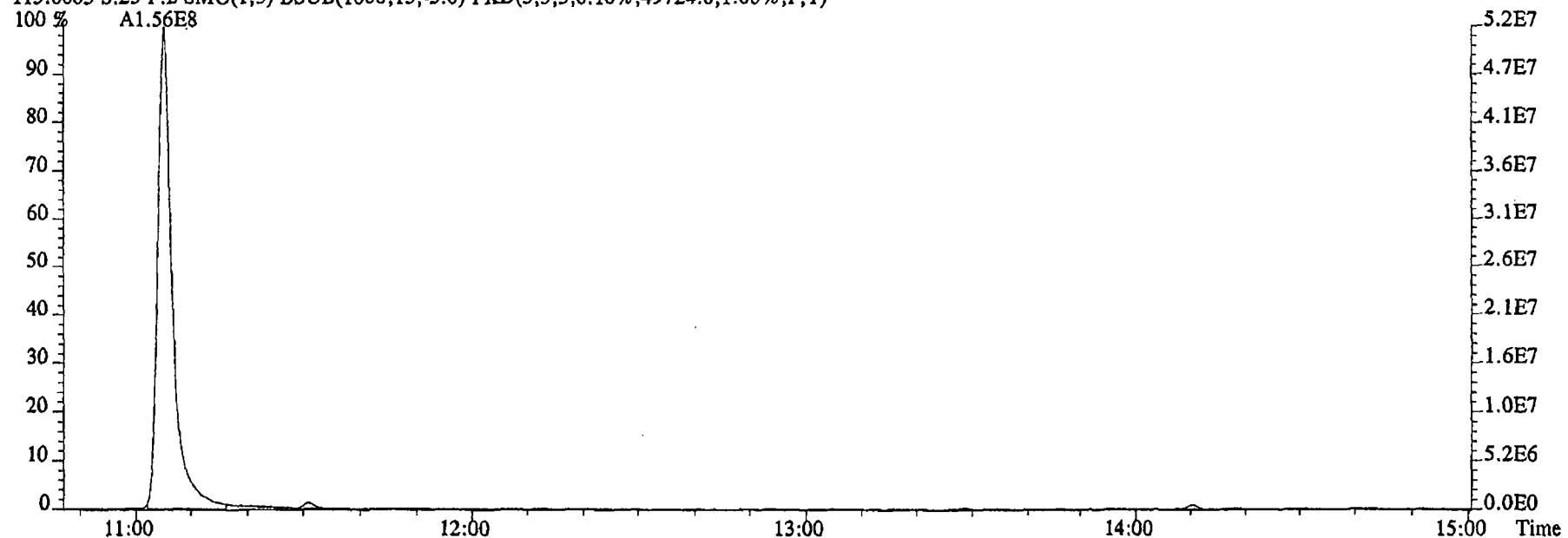
File:16DE04SSP #1-591 Acq:17-DEC-2004 02:05:31 GC EI+ Voltage SIR 70SE

Sample#23 Text:G0PC2-1-AC :G4L090480-1 Exp:NDMAVOA

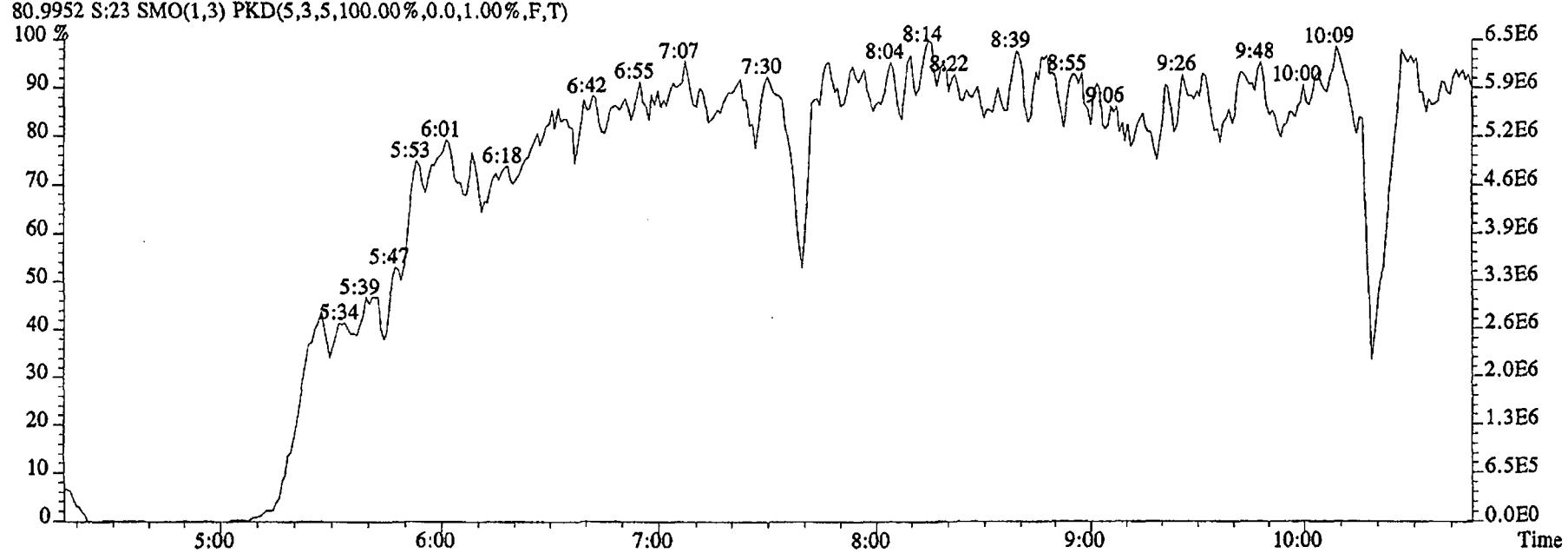
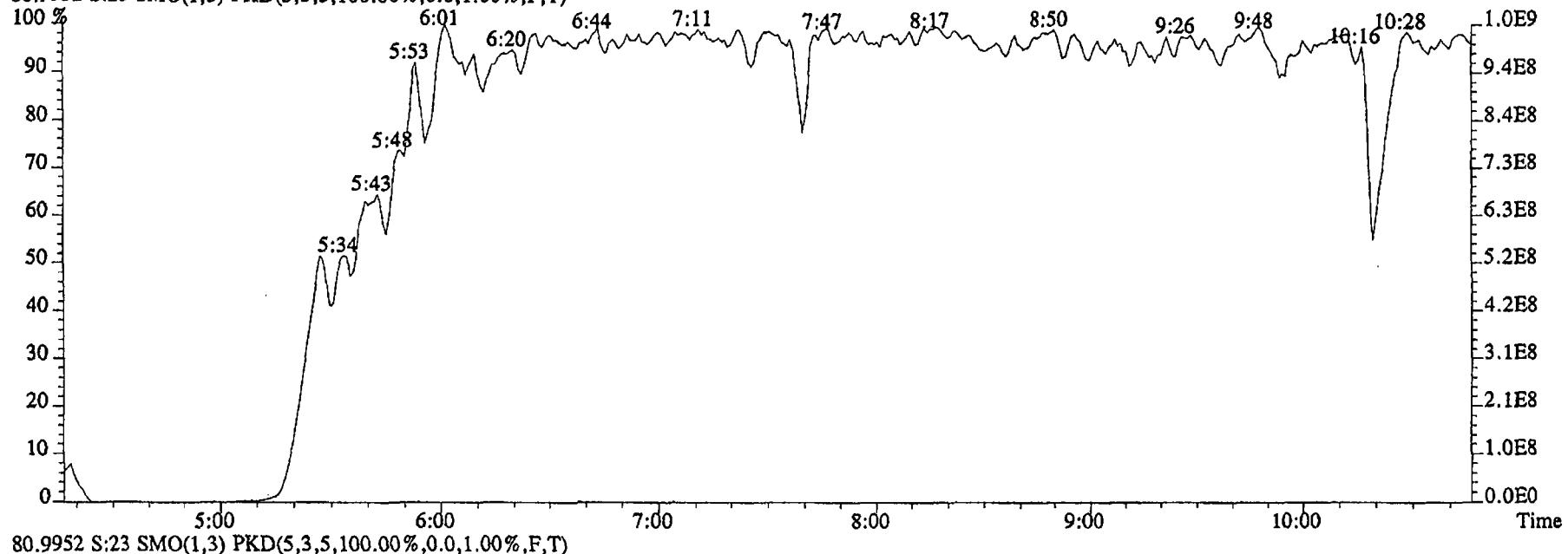
113.0032 S:23 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2427228.0,1.00%,F,T)



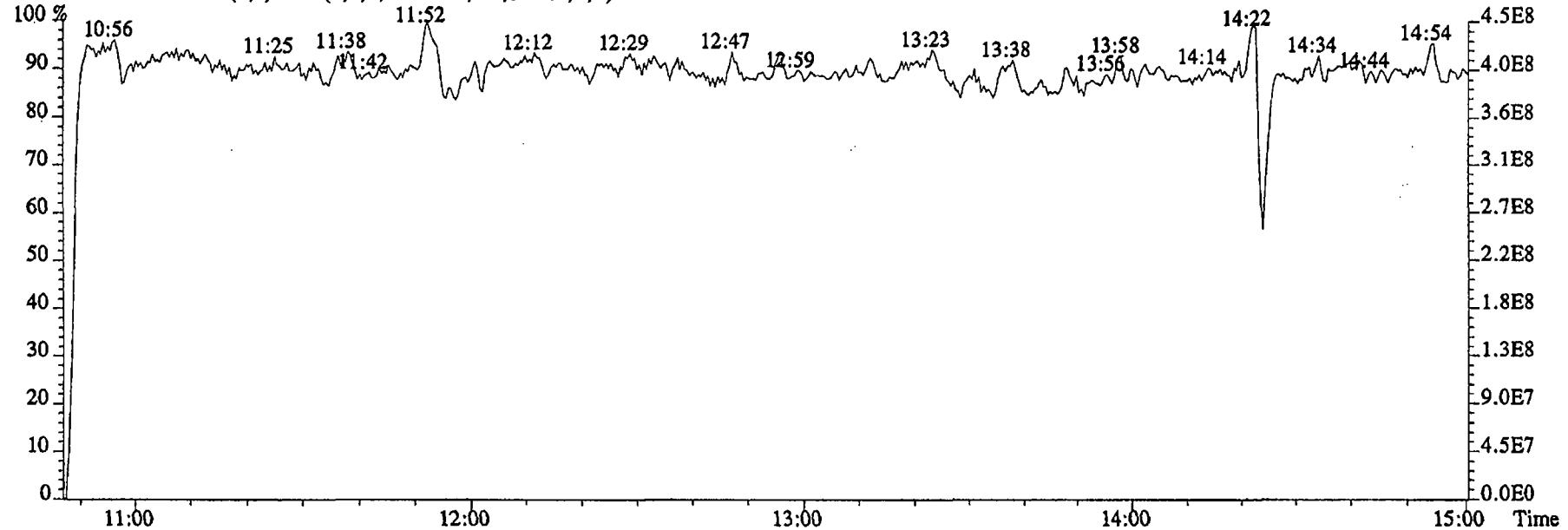
115.0003 S:23 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,49724.0,1.00%,F,T)



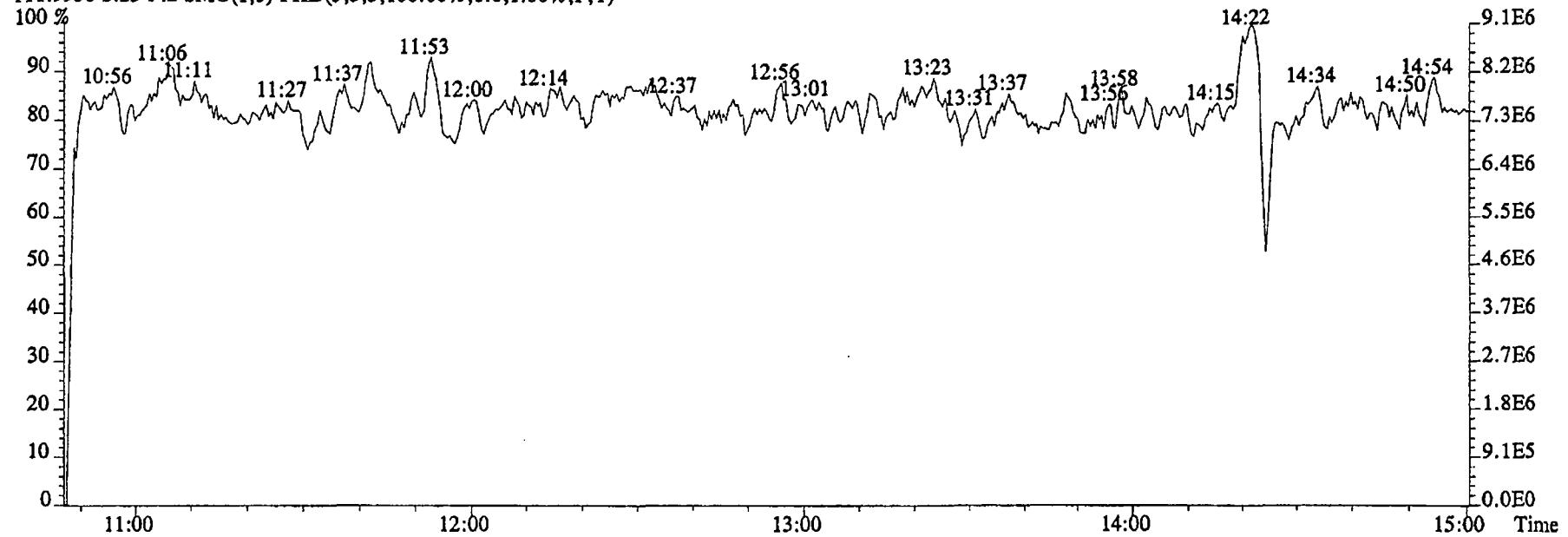
File:16DE045SP #1-480 Acq:17-DEC-2004 02:05:31 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-1-AC :G4L090480-1  
Exp:NDMAVOA  
68.9952 S:23 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:16DE045SP #1-591 Acq:17-DEC-2004 02:05:31 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:G0PC2-1-AC :G4L090480-1 Exp:NDMAVOA  
 118.9920 S:23 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:23 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

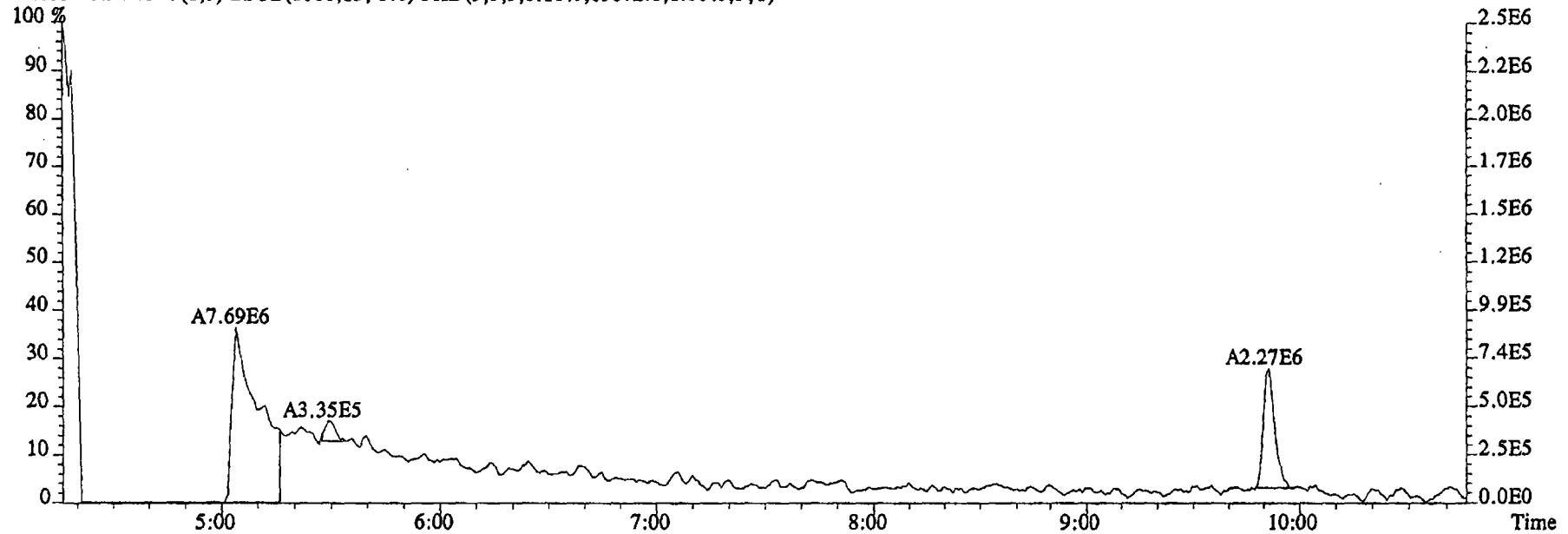


Run text: G0PC4-1-AC      Sample text: G0PC4-1-AC :G4L090480-2  
 Run #22 Filename: 16DE045SP    S: 24    I: 1    Results: KAS  
 Acquired: 17-DEC-04 02:25:49      Processed: 17-DEC-04 13:47:42  
 Run: KAS      Analyte: 1625      Cal: 16251216045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.986    L

Name	Resp	RA	RT	RRF	Conc	<i>p</i>	EDL	Rec	M
2-Chloropyridine	117094000		11:05	-	242.26		-	-	n
D8-1,4-Dioxane	2185310		5:15	0.66	5.78	0.17	0.6	-	n
1,4-Dioxane	*		Not Fnd	1.05	*	682.74	-	n	
D5-123-TriChloroPropane	98237900		10:01	2.35	72.41	0.11	71.4	-	n
1,2,3-TriChloroPropane	*		Not Fnd	0.48	*	0.54	-	n	
1,2,3-TriChloroPropane	*		Not Fnd	-	*	-	-	-	n
D6-NDMA	9651590		10:12	1.48	11.29	0.09	11.1	-	n
NDMA	3568690		10:11	1.37	27.32	NA	15.35	-	n
2-Chloropyridine	370479000		11:05	-	239.84		-	-	n

*12.28 64  
ea*

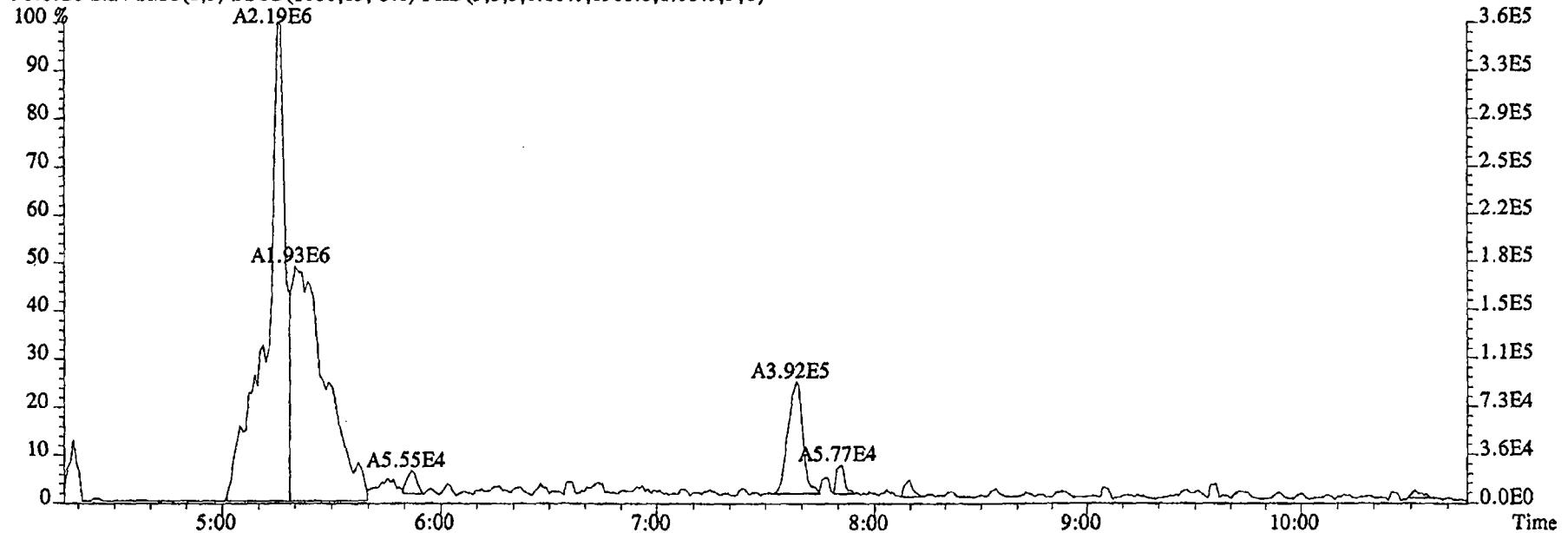
File:16DE045SP #1-480 Acq:17-DEC-2004 02:25:49 GC EI+ Voltage SIR 70SE  
Sample#24 Text:G0PC4-1-AC :G4L090480-2 Exp:NDMAVOA  
88.0524 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,85672.0,1.00%,F,T)



96.1026 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6960.0,1.00%,F,T)

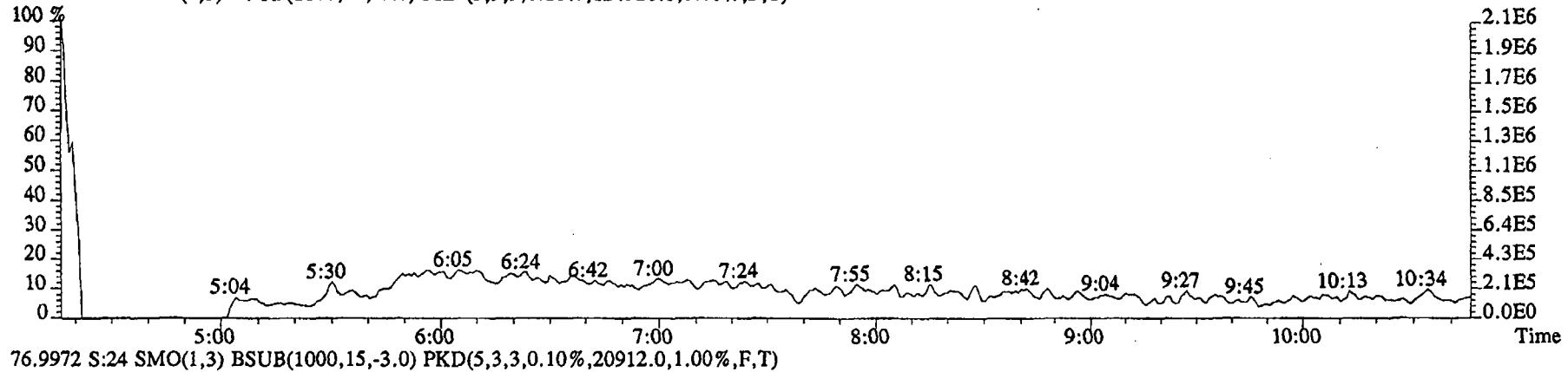
Time

STL-Sacramento (916) 373-5600

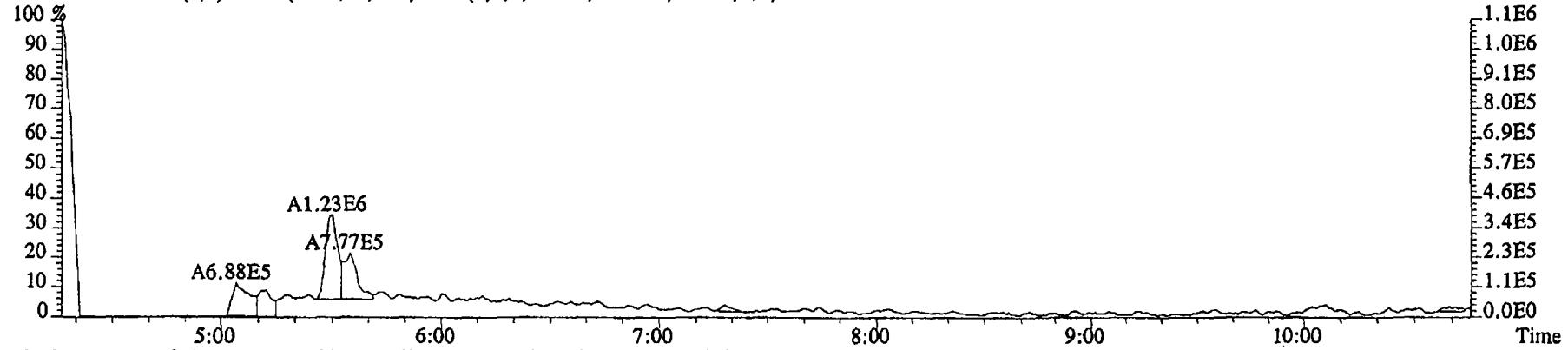


G4L090480

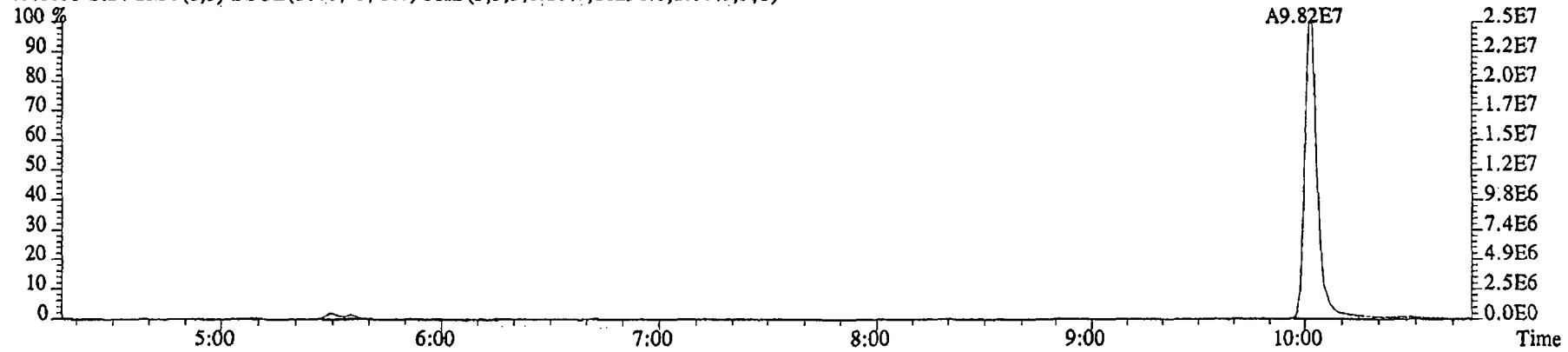
File:16DE045SP #1-480 Acq:17-DEC-2004 02:25:49 GC EI+ Voltage SIR 70SE  
 Sample#24 Text:G0PC4-1-AC :G4L090480-2 Exp:NDMAVOA  
 75.0002 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,224320.0,1.00%,F,T)



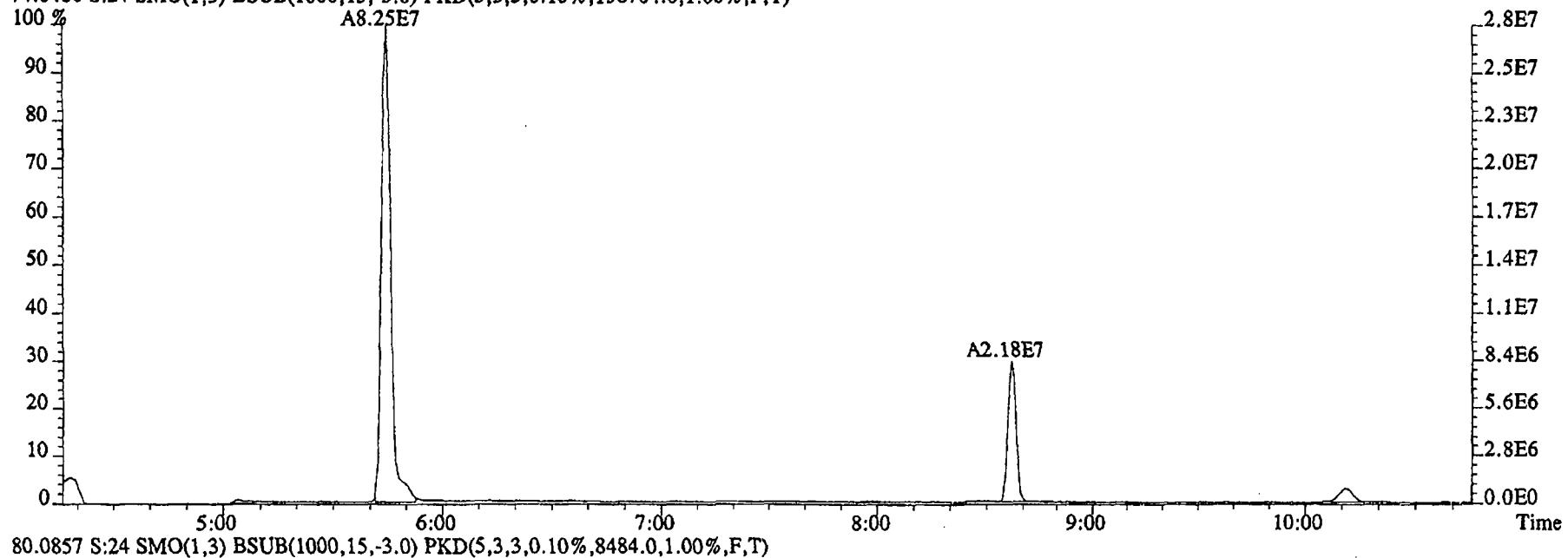
76.9972 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20912.0,1.00%,F,T)



79.0253 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16292.0,1.00%,F,T)

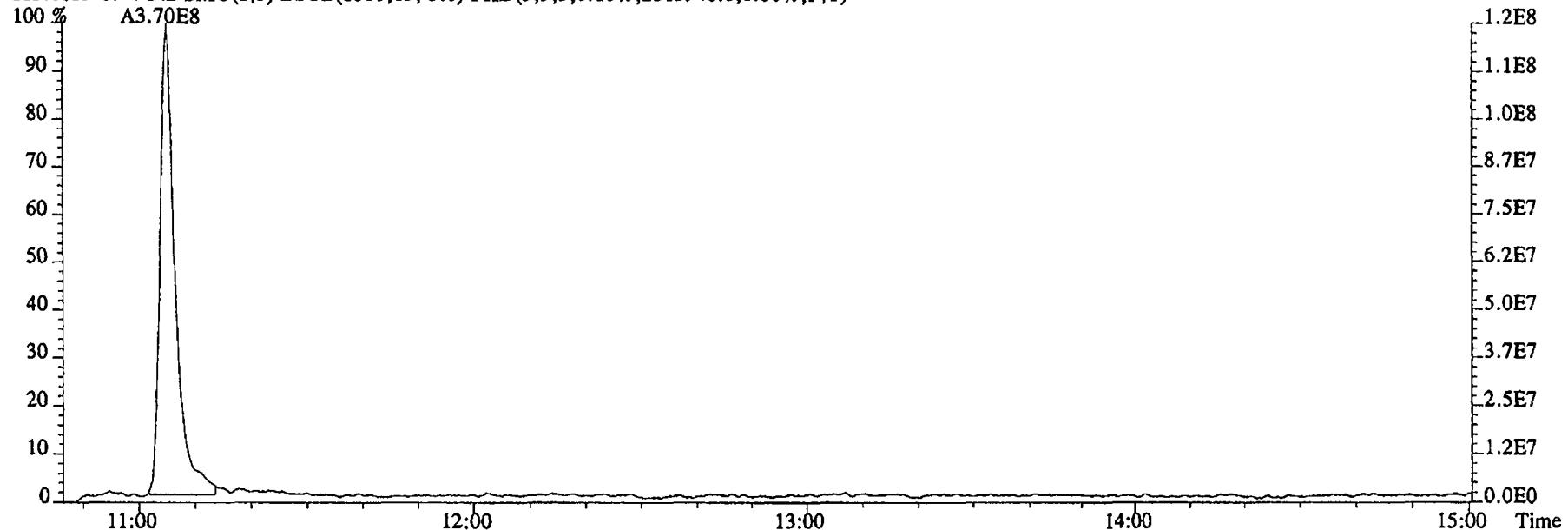


File: 16DE045SP #1-480 Acq:17-DEC-2004 02:25:49 GC EI+ Voltage SIR 70SE  
Sample#24 Text: G0PC4-1-AC :G4L090480-2 Exp: NDMAVOA  
74.0480 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,138704.0,1.00%,F,T)

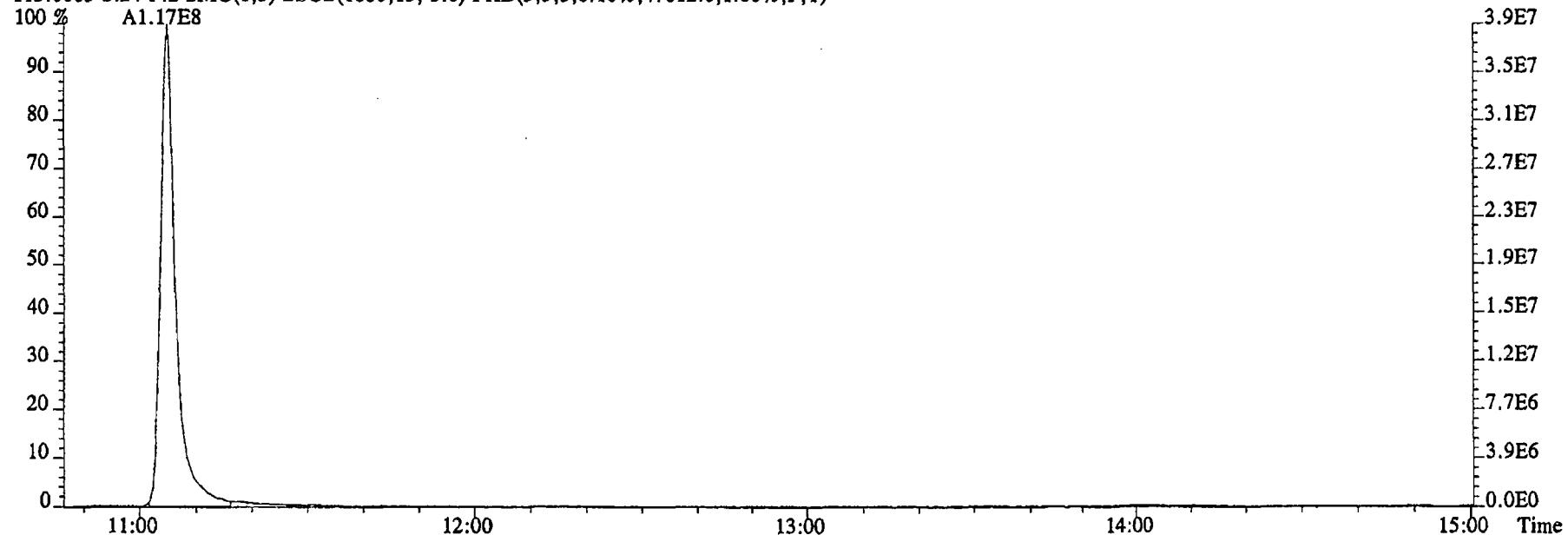


80.0857 S:24 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8484.0,1.00%,F,T)

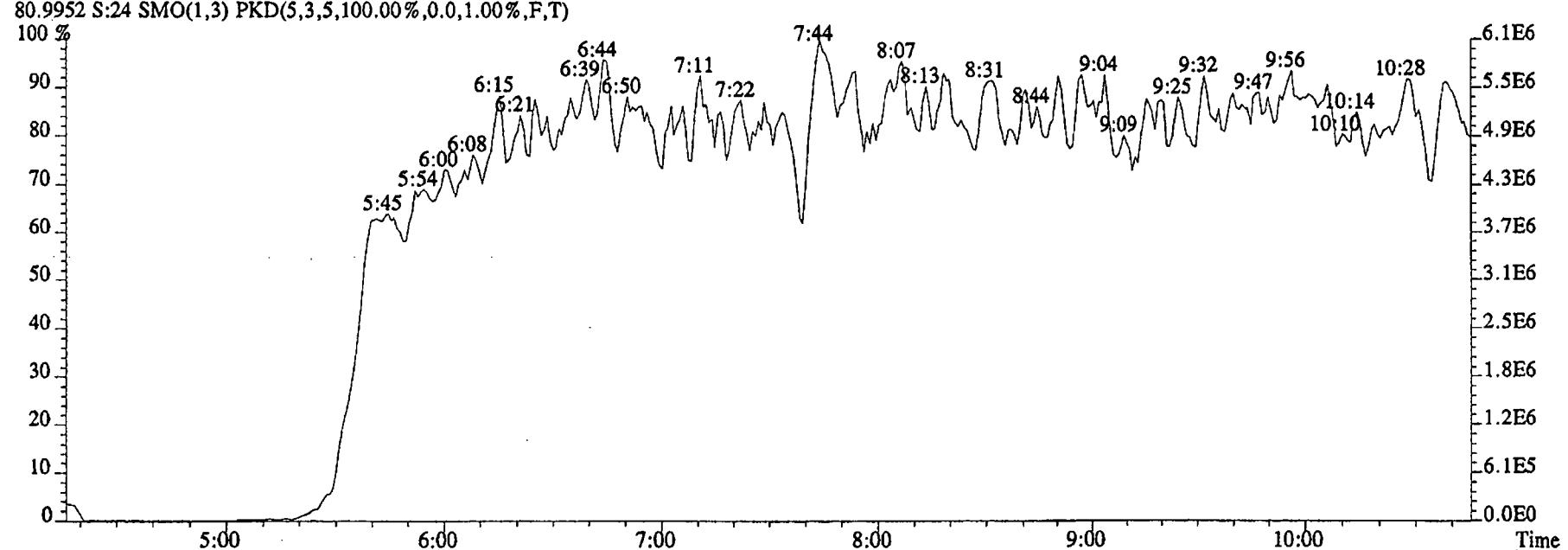
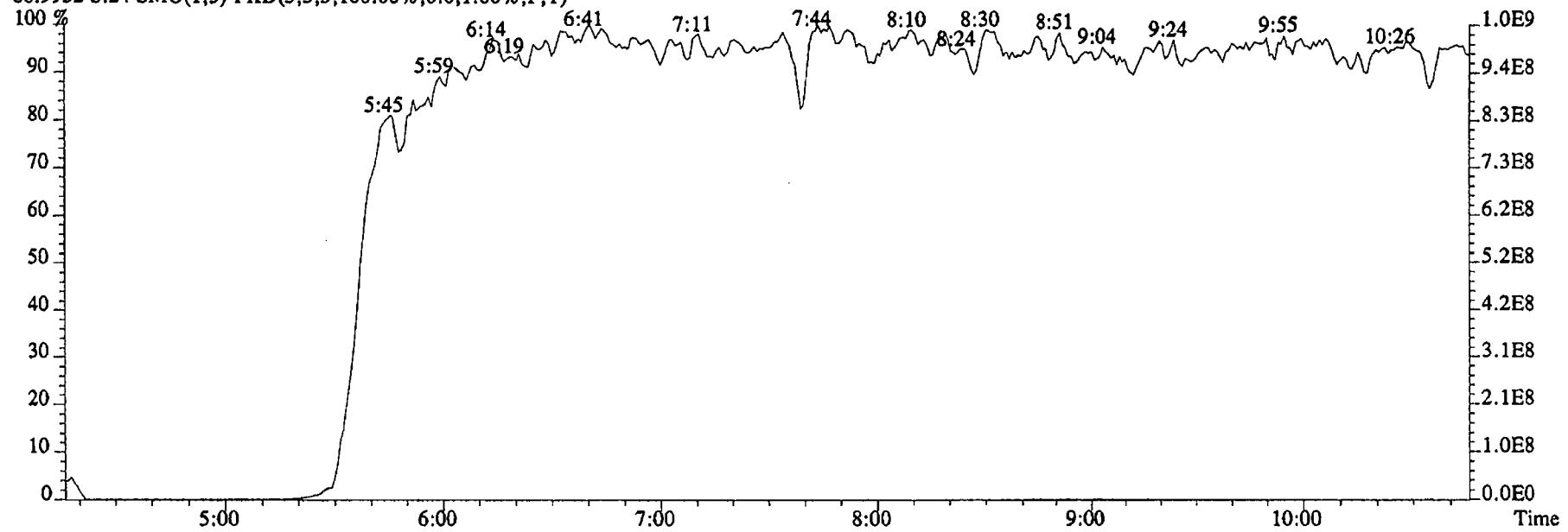
File:16DE045SP #1-592 Acq:17-DEC-2004 02:25:49 GC EI + Voltage SIR 70SE  
Sample#24 Text:G0PC4-1-AC :G4L090480-2 Exp:NDMAVOA  
113.0032 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2315940.0,1.00%,F,T)

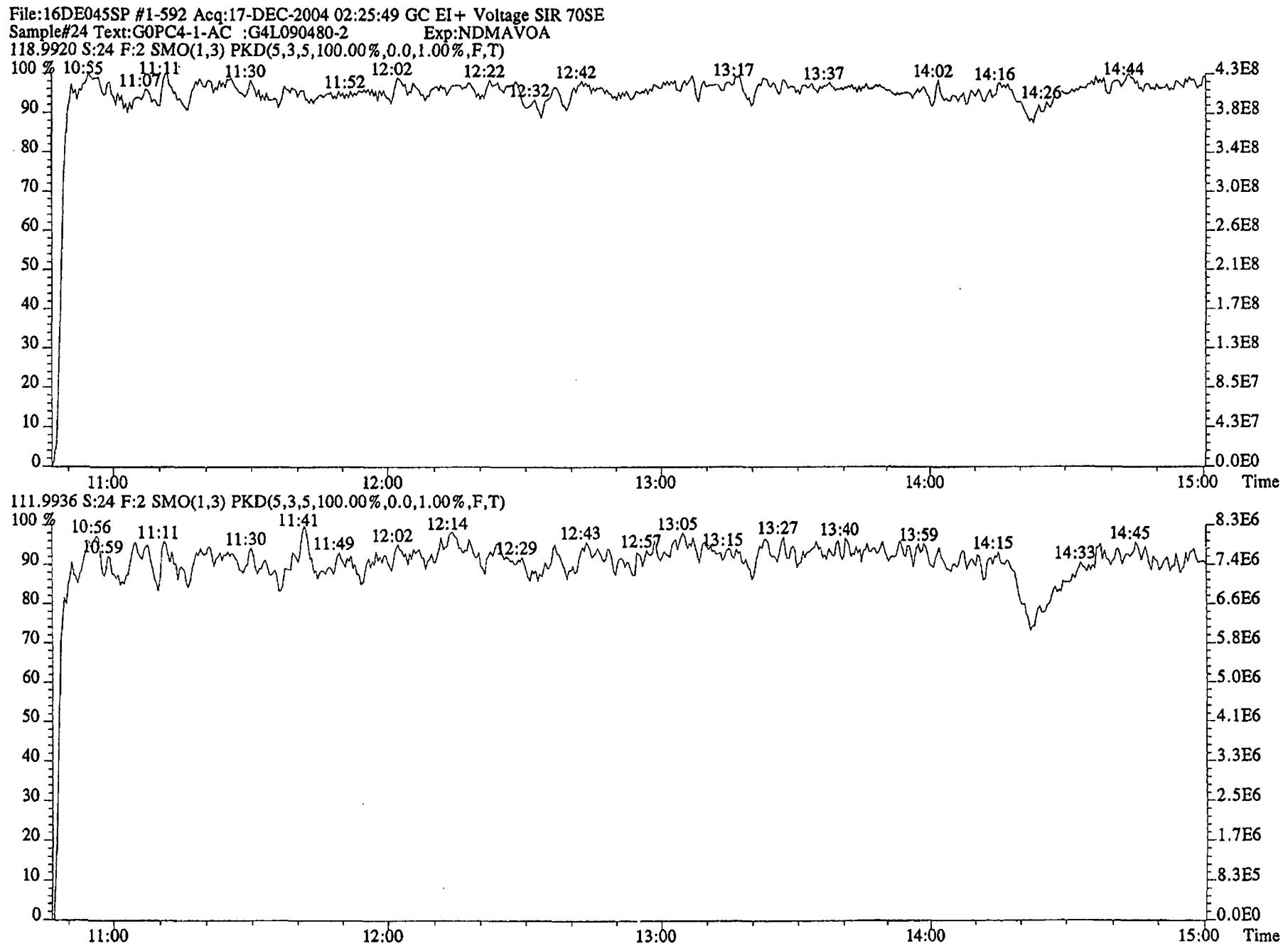


115.0003 S:24 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,47012.0,1.00%,F,T)



File:16DE045SP #1-480 Acq:17-DEC-2004 02:25:49 GC EI+ Voltage SIR 70SE  
 Sample#24 Text:G0PC4-1-AC :G4L090480-2 Exp:NDMAVOA  
 68.9952 S:24 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



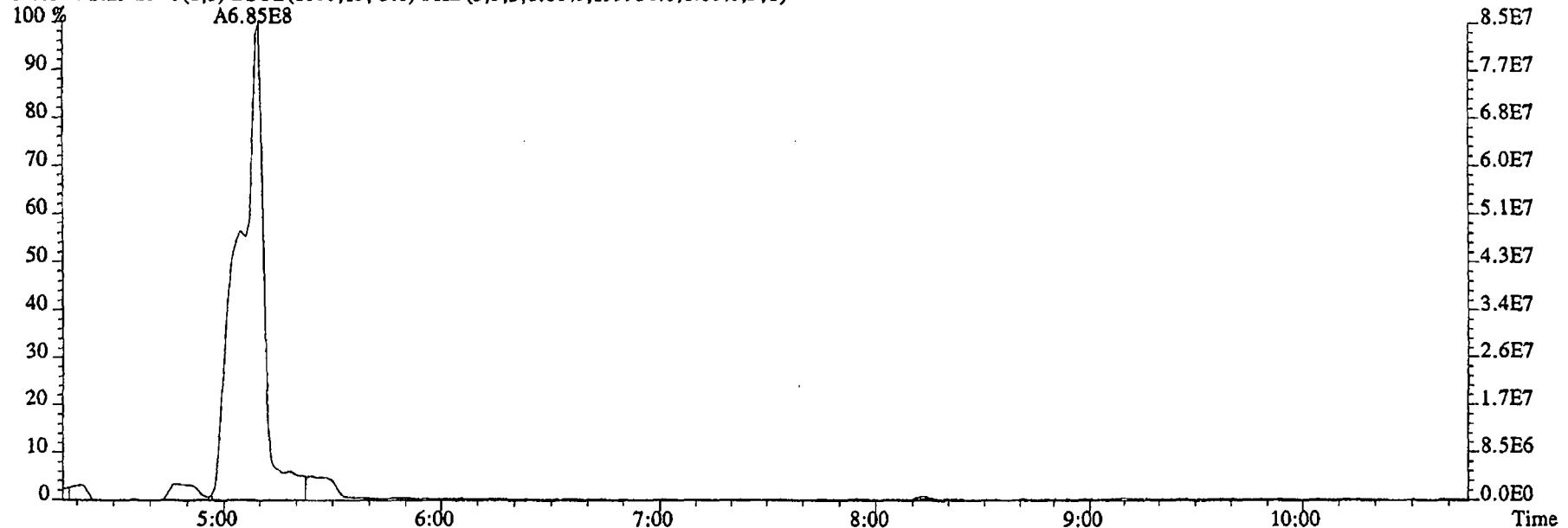


Run text: G0PC5-1-AC      Sample text: G0PC5-1-AC :G4L090480-3  
 Run #23 Filename: 16DE045SP    S: 25    I: 1    Results: KAS  
 Acquired: 17-DEC-04 02:46:06      Processed: 17-DEC-04 13:47:43  
 Run: KAS      Analyte: 1625      Cal: 16251216045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.961    L

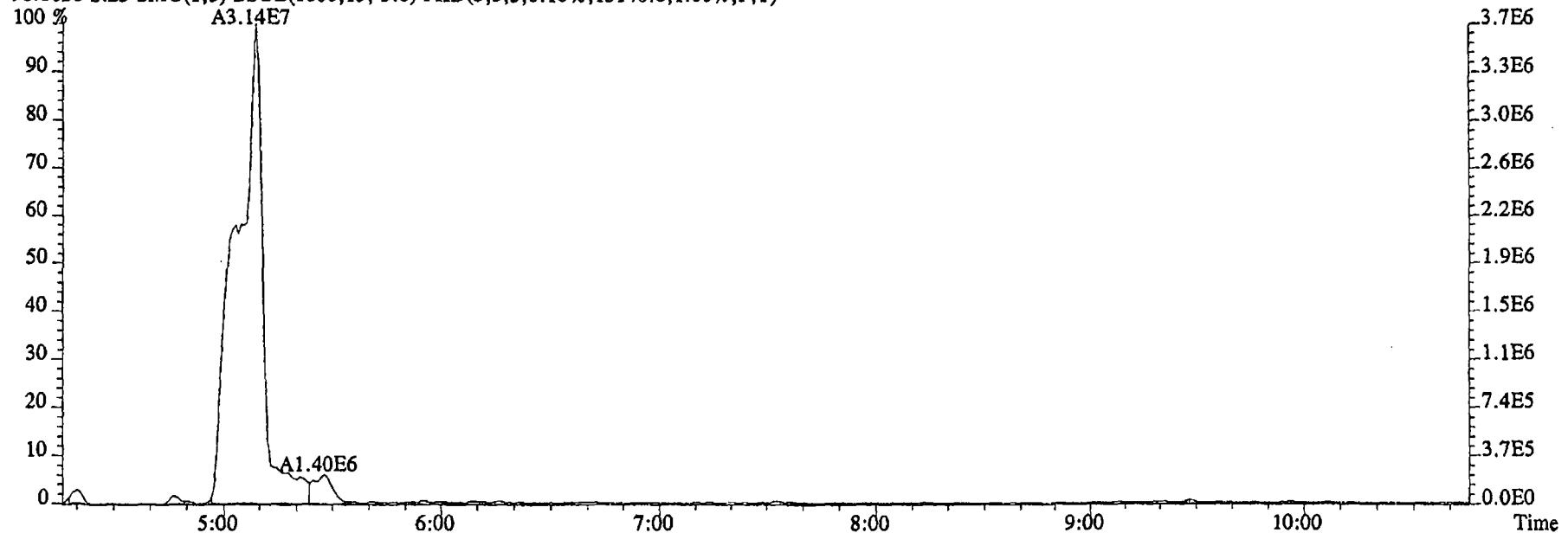
Name	Resp	RA	RT	RRF	Conc	u	EDL	Rec	M
2-Chloropyridine	143113000		11:03	-	303.67		-	-	n
D8-1,4-Dioxane	31409600		5:09	0.66	69.69		0.28	6.7	n
1,4-Dioxane	684811000		5:10	1.05	21516.54		160.01	-	n
D5-123-TriChloroPropane	95847200		10:00	2.35	59.29	*	0.12	57.0	n
1,2,3-TriChloroPropane	*		Not Fnd	0.48		45.0	1.77	-	n
1,2,3-TriChloroPropane	*		Not Fnd	-	*		-	-	n
D6-NDMA	11053800		10:09	1.48	10.85		0.08	10.4	n
NDMA	5108310		10:08	1.37	35.00	NA	15.11	-	n
2-Chloropyridine	461609000		11:04	-	306.49		-	-	n

12-14-04  
d

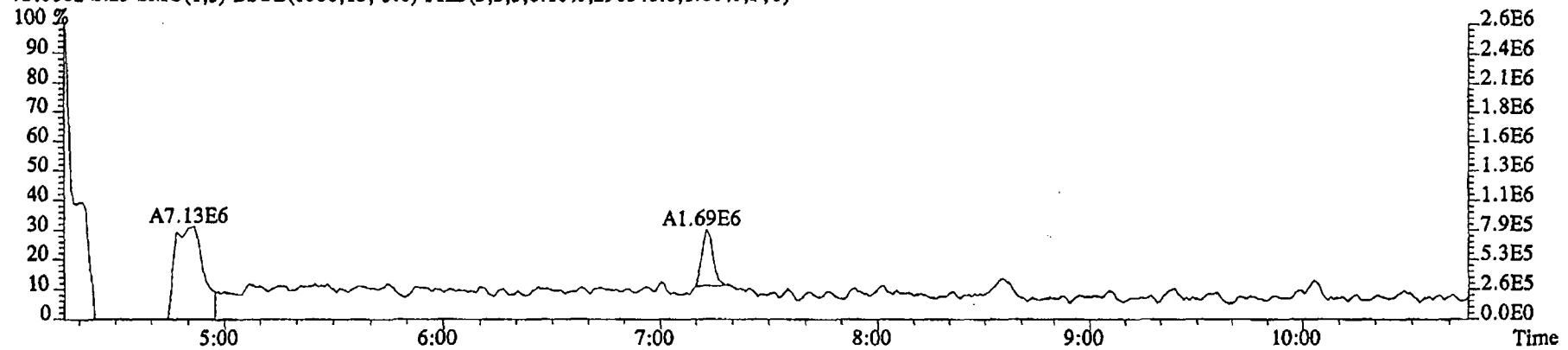
File:16DE045SP #1-480 Acq:17-DEC-2004 02:46:06 GC EI+ Voltage SIR 70SE  
Sample#25 Text:G0PC5-1-AC :G4L090480-3 Exp:NDMAVOA  
88.0524 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,199936.0,1.00%,F,T)



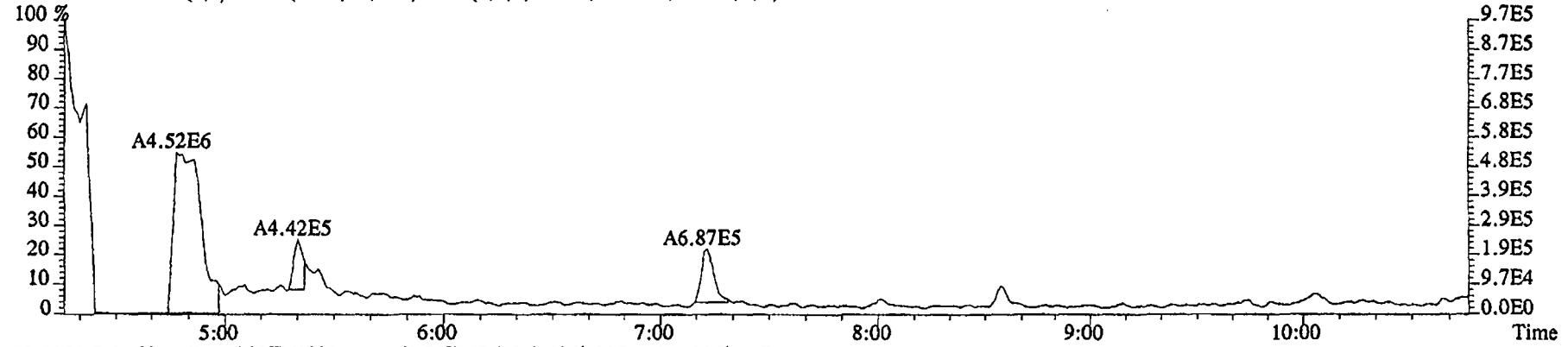
96.1026 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13140.0,1.00%,F,T)



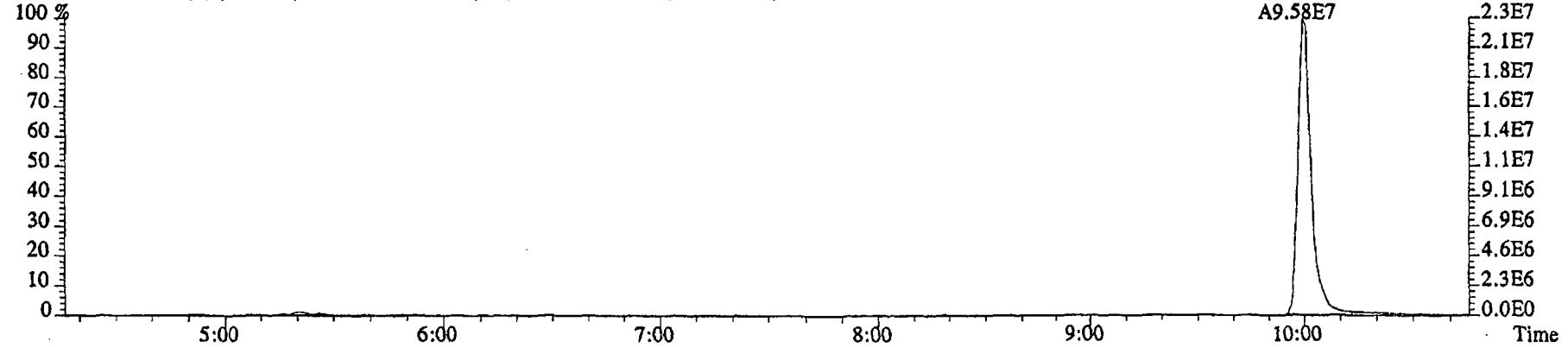
File:16DE045SP #1-480 Acq:17-DEC-2004 02:46:06 GC EI+ Voltage SIR 70SE  
 Sample#25 Text:GOPCS-1-AC :G4L090480-3 Exp:NDMAVOA  
 75.0002 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,290348.0,1.00%,F,T)



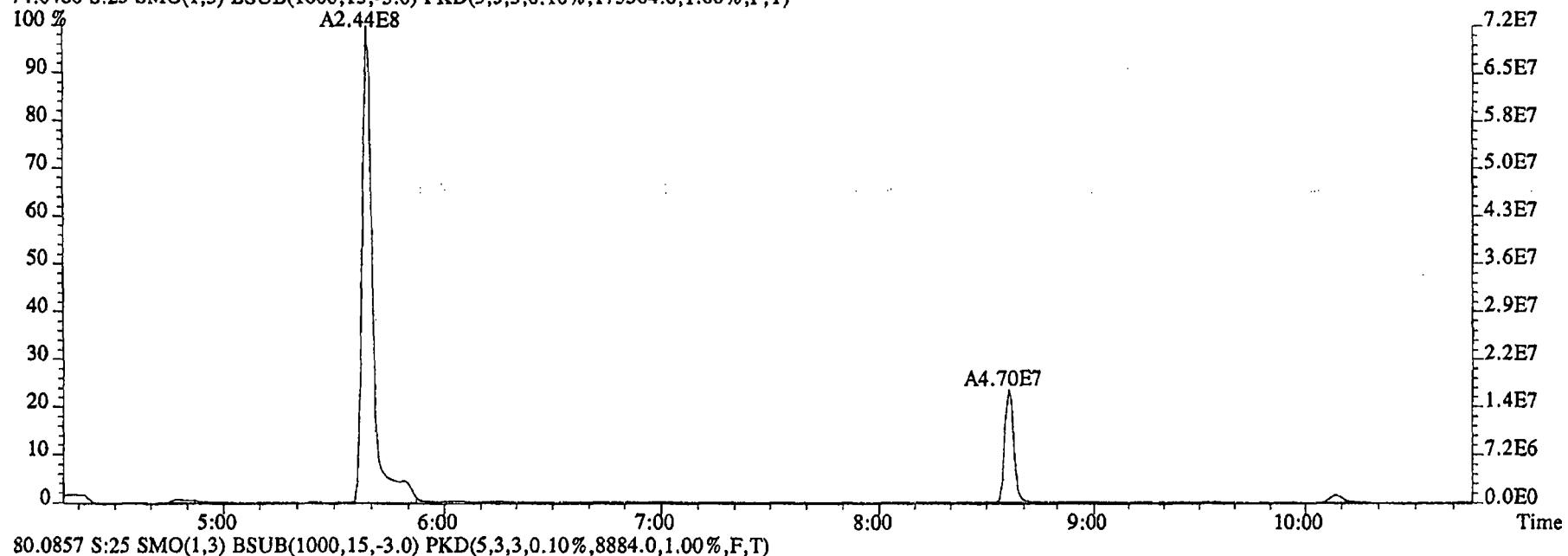
76.9972 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,62404.0,1.00%,F,T)



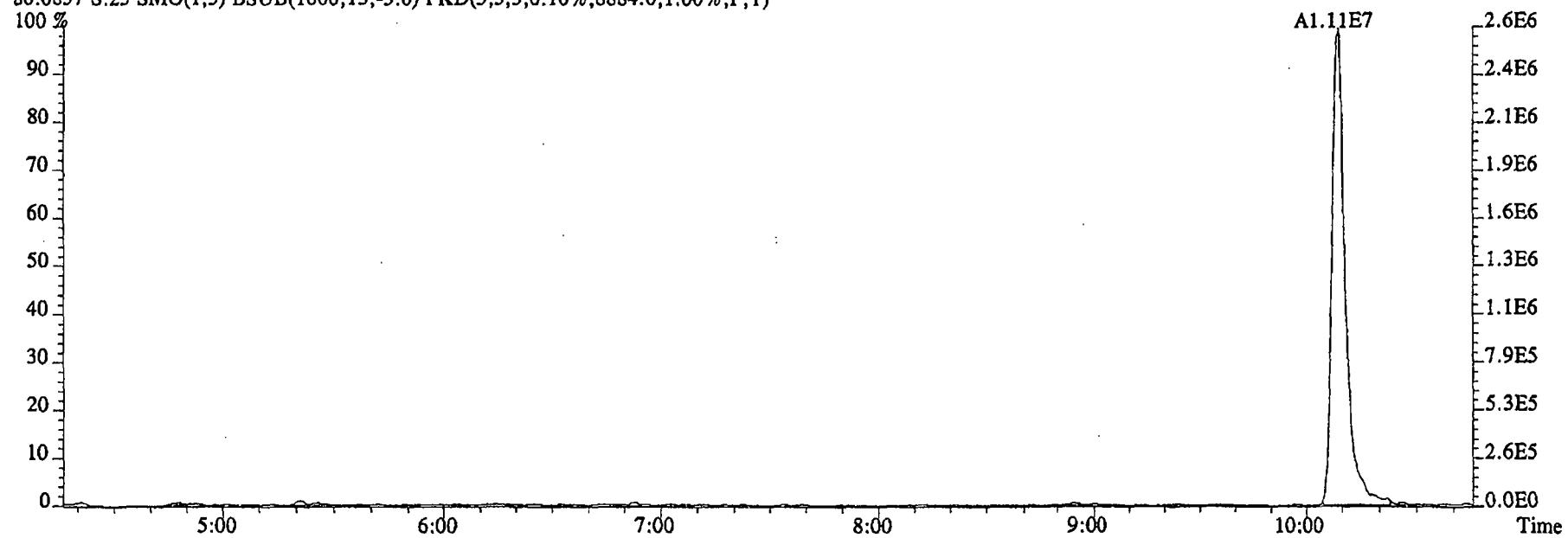
79.0253 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20744.0,1.00%,F,T)



File:16DE045SP #1-480 Acq:17-DEC-2004 02:46:06 GC EI+ Voltage SIR 70SE  
 Sample#25 Text:G0PC5-1-AC :G4L090480-3 Exp:NDMAVOA  
 74.0480 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,175504.0,1.00%,F,T)



80.0857 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8884.0,1.00%,F,T)

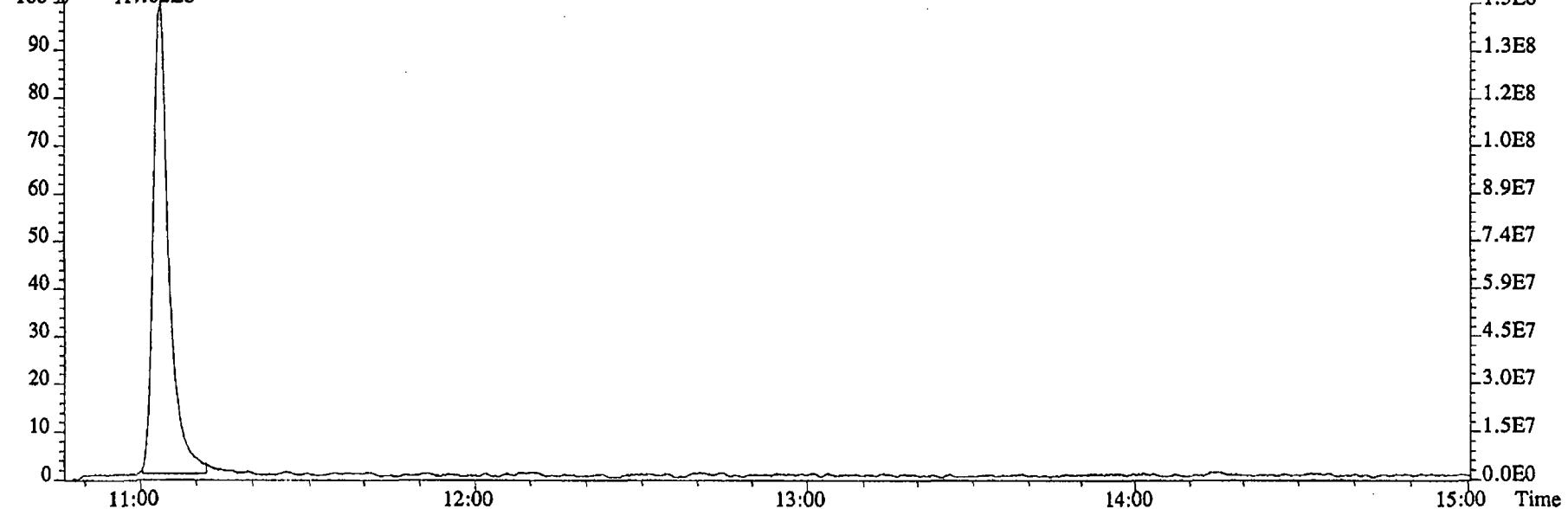


File:16DE045SP #1-592 Acq:17-DEC-2004 02:46:06 GC EI+ Voltage SIR 70SE

Sample#25 Text:G0PC5-1-AC :G4L090480-3 Exp:NDMAVOA

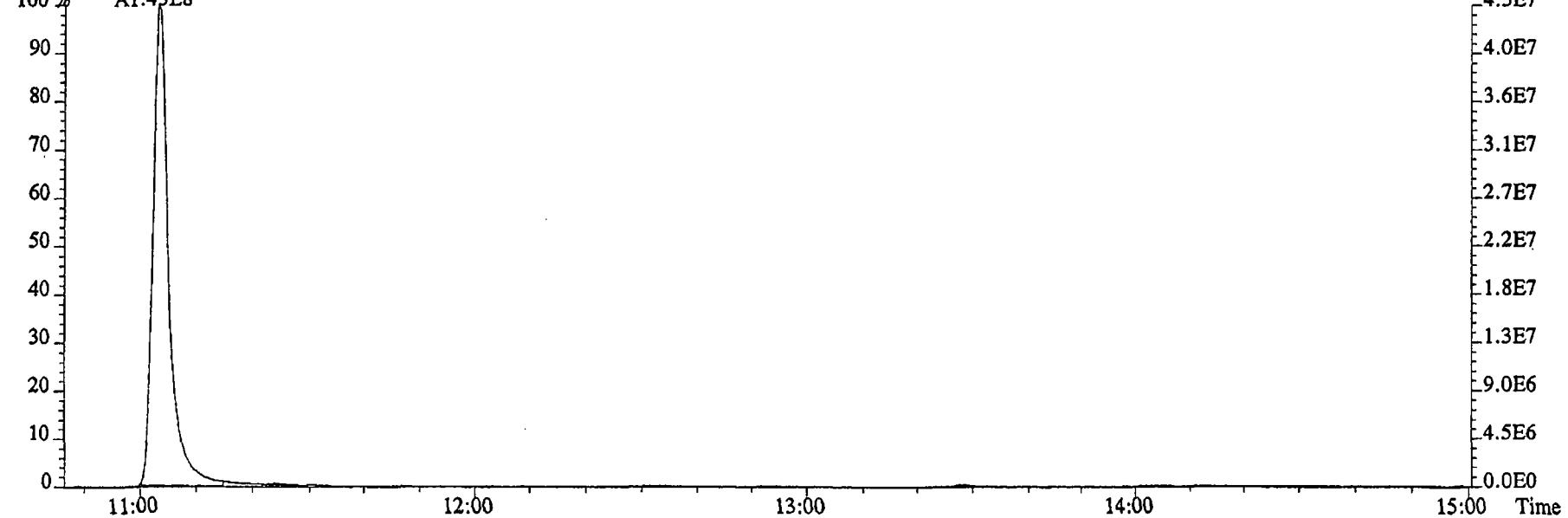
113.0032 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2045524.0,1.00%,F,T)

100 % A4.62E8

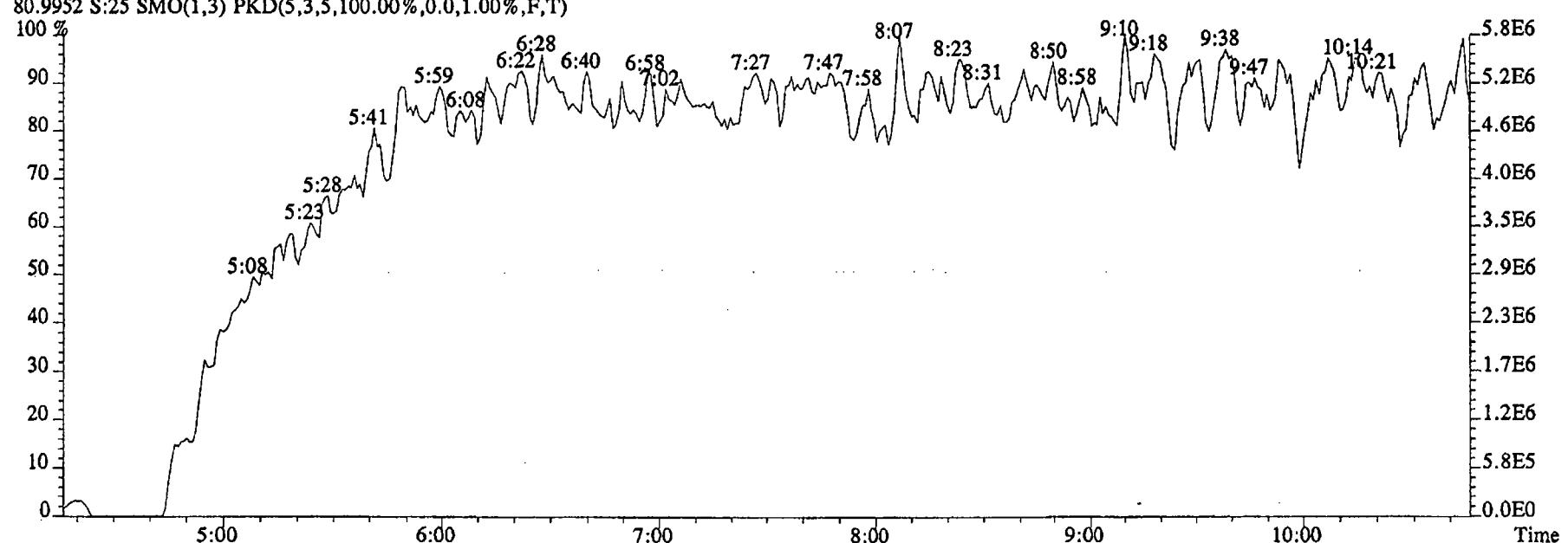
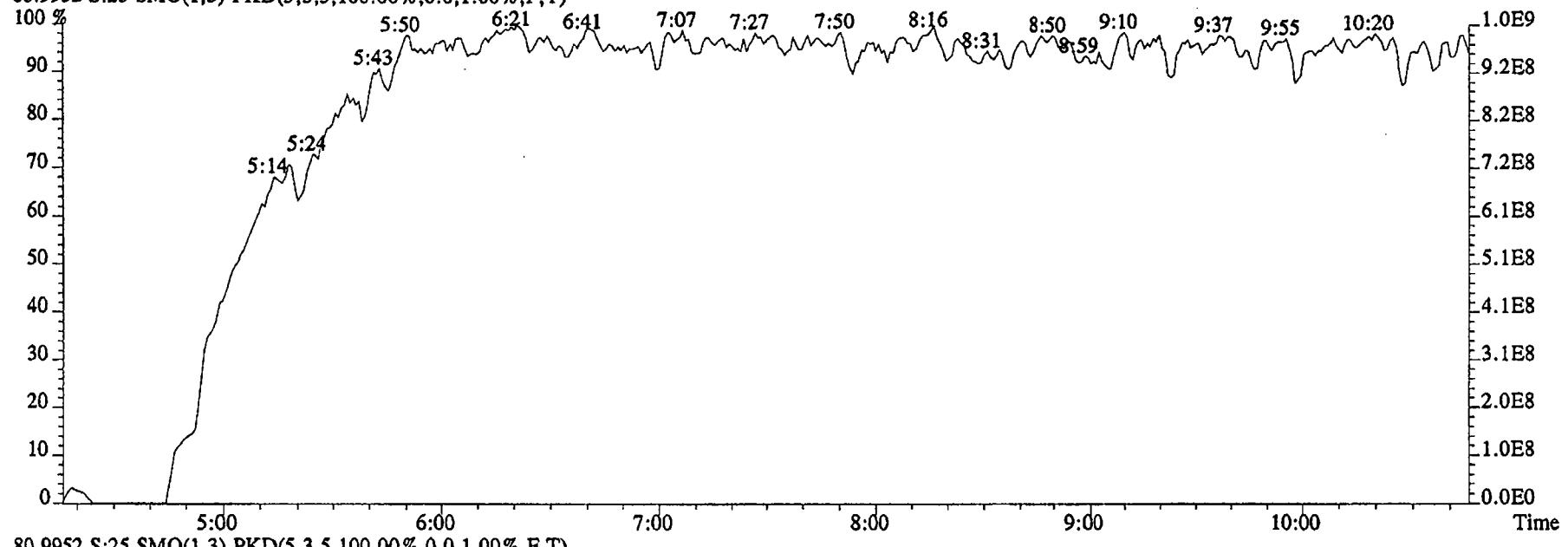


115.0003 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40140.0,1.00%,F,T)

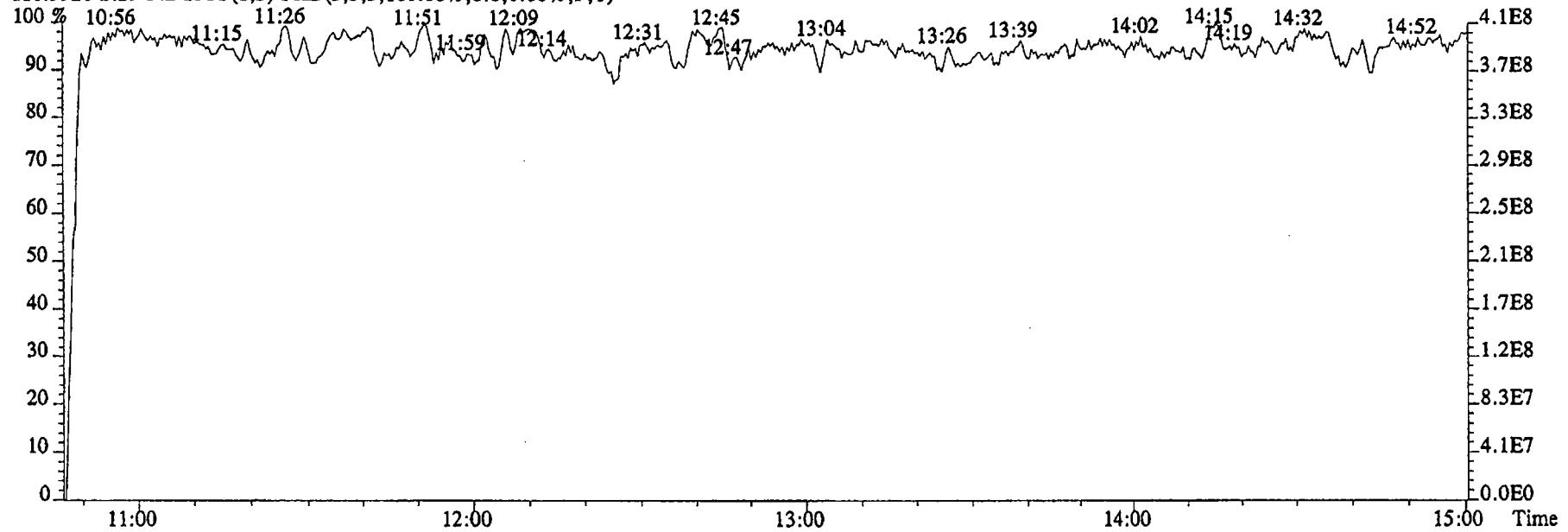
100 % A1.43E8



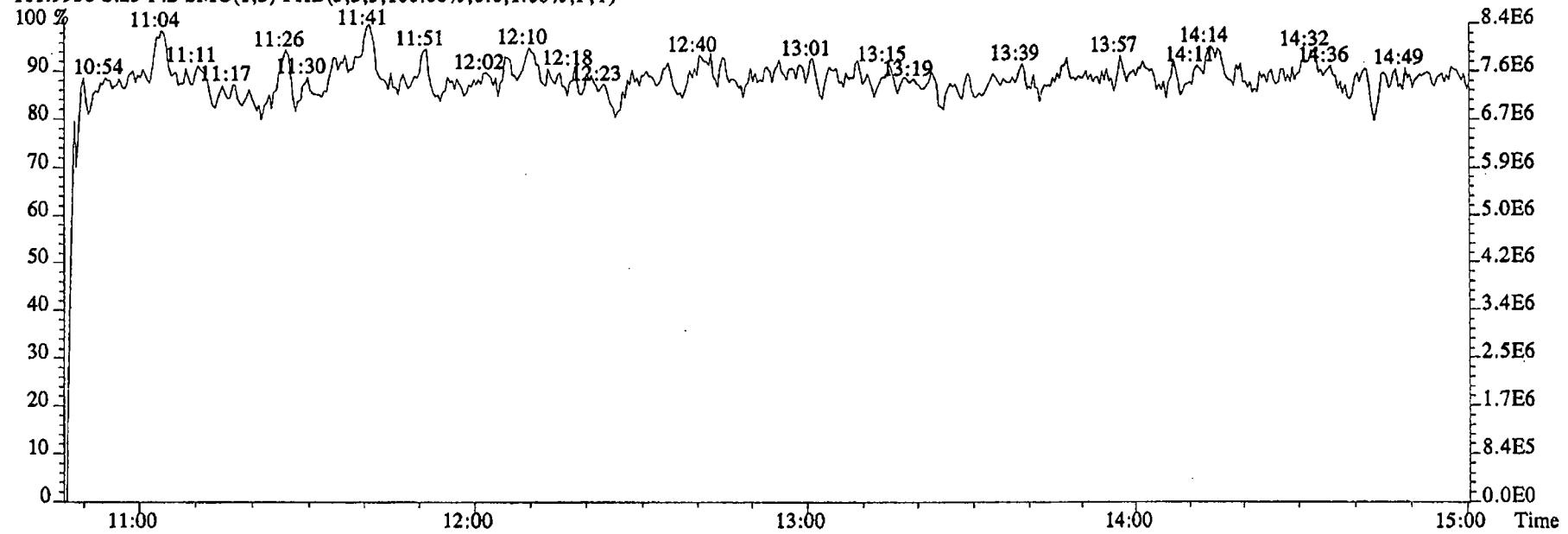
File:16DE045SP #1-480 Acq:17-DEC-2004 02:46:06 GC EI+ Voltage SIR 70SE  
 Sample#25 Text:G0PC5-1-AC :G4L090480-3 Exp:NDMAVOA  
 68.9952 S:25 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:16DE045SP #1-592 Acq:17-DEC-2004 02:46:06 GC EI+ Voltage SIR 70SE  
 Sample#25 Text:G0PCS-1-AC :G4L090480-3 Exp:NDMAVOA  
 118.9920 S:25 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:25 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



**Daily Standard Checklist**  
**High Resolution**

Method ID 1625  
 Column ID 2P-2331  
 STD ID ST1216E  
 Analyzed By AM  
 Prepared By KAS  
 Reviewed By Critchell

Associated ICAL 162512160455P  
 Instrument ID 55P  
 STD Solution 23.50-GSC  
 Date Analyzed 12/16/04  
 Date Prepared 12/17/04  
 Date Reviewed 12-17-04

ANALYSIS OF CAL		INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓ / N/A	✓ / N/A(1)	
Copy of log-file and Static Resolution present?	✓		✓
CPSM blow up present?	N/A(1)		N/A(1)
Curve Summary present?	✓		✓
Summary of Method criteria present?	✓/A		N/A
Daily standard within method specified limits?	✓		✓
Analyte retention times correct?	✓		✓
Isotopic ratios within limits?	N/A		N/A
CPSM valley < method specified limits?"	N/A(1)		N/A(1)
Are chromatographic windows correct?	✓		✓
Samples analyzed within 12 hrs of daily standard?	✓		✓
Manual reintegration's checked and hardcopies included?	N/A		N/A
Ending Standard and ending Static Resolutions present	N/A		N/A

COMMENTS: (1) No CPSM in 1625 method

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- \* Method 8290: (beginning) +/- 20% from curve RRFs for native analytes, +/- 30% from curve RRFs for labeled compounds.
- Method 8290: (ending) +/- 25% from curve RRFs for native analytes, +/- 35% from curve RRFs for labeled compounds.
- Method 8290 (GB): +/- 30% from curve RRFs for native analytes.
- Method 23: See Method 23 Daily Standard Criteria, Table 5.
- Method 1613A/1613B: See Method 1613A, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
- PAH: +/- 30% from curve RRFs for native and labeled compounds.
- PCB: +/- 30% from curve RRFs for native and 50% for labeled compounds.
- NCASI 551: +/-20% from curve RRFs for native and labeled compounds.
- DBD/DBF: +/-30% from curve RRFs for native analytes; +/- 40% from curve RRFs for labeled compounds.

- \*\* Method 23 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and the closest eluters normalized at the smallest peak height of the three peaks (with the 2378 peak being the middle peak).
- 551/1613A/1613B/8290 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.
- GB CPSM Criteria: 30% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1216E  
 Run #6   Filename 16DE045SP   S: 7  
 Acquired: 16-DEC-04 20:40:23  
 Run: 16DE045SP   Analyte: 1625

File text: ST1216E :CS3 2350-68C  
 I: 1  
 Processed: 16-DEC-04 21:01:52  
 Cal: 16251216045SP   Results: 16DE045SP1625

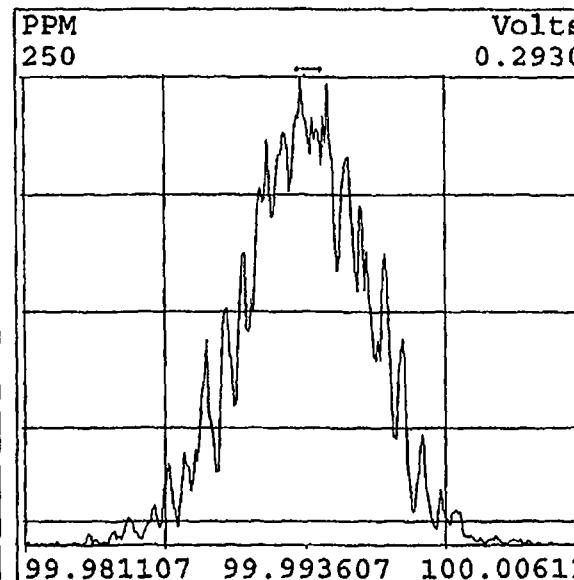
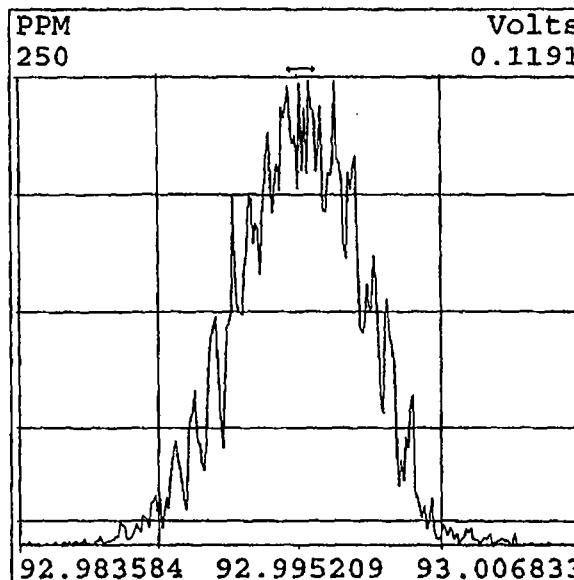
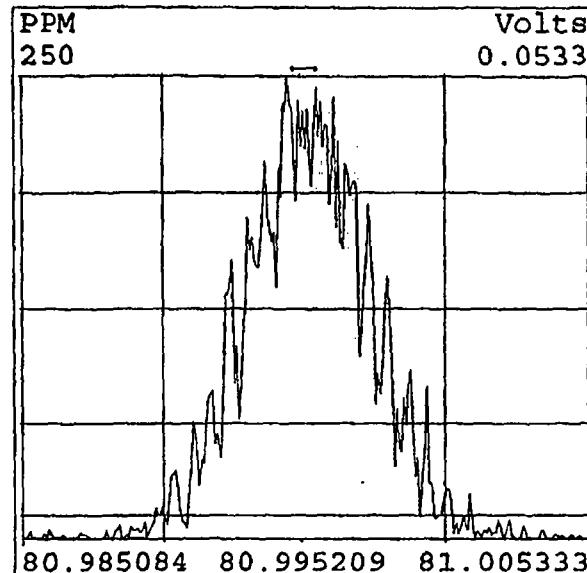
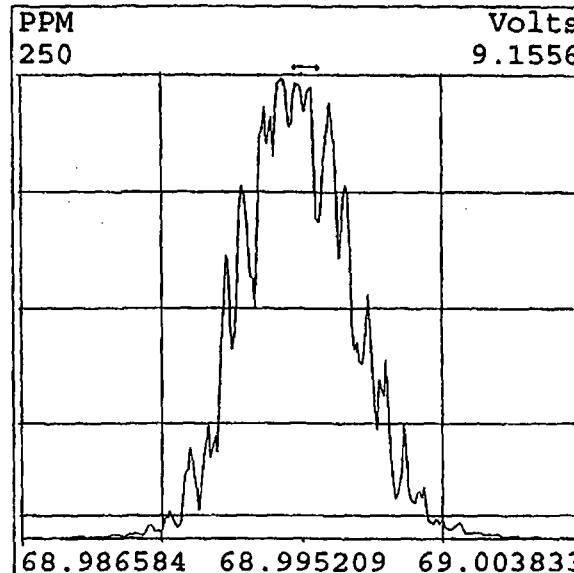
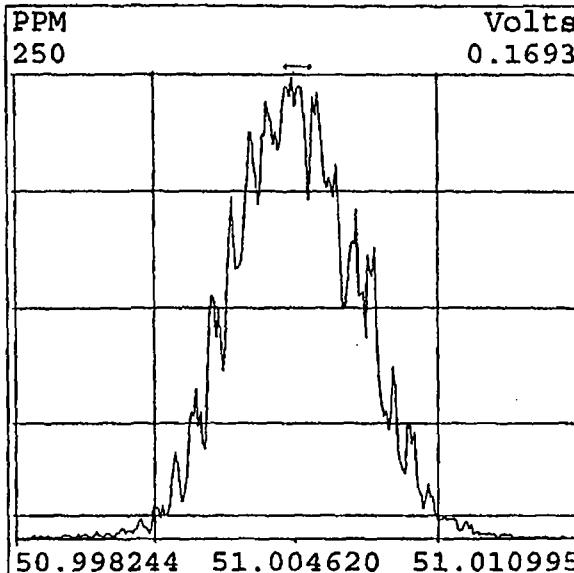
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
2-Chloropyridine	59239100		11:03	-	200.00	-	n
D8-1,4-Dioxane	298257000		5:05	1.01	1000.00	53.6	n
1,4-Dioxane	15862700		5:06	1.06	50.00	0.9	n
D5-123-TriChloroPropane	82741800		9:59	2.79	100.00	18.8	n
1,2,3-TriChloroPropane	18095400		10:03	0.44	50.00	-9.2	n
1,2,3-TriChloroPropane	55225100		10:03	-	50.00	-	n
D6-NDMA	43186900		10:10	1.46	100.00	-1.6	n
NDMA	30583100		10:09	1.42	50.00	3.1	n
2-Chloropyridine	188586000		11:03	-	200.00	-	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
16DE045SP	1	ST1216	CS1 2350-68A				1.000	
16DE045SP	2	ST1216A	CS2 2350-68B				1.000	
16DE045SP	3	ST1216B	CS3 2350-68C				1.000	
16DE045SP	4	ST1216C	CS4 2350-68D				1.000	
16DE045SP	5	ST1216D	CS5 2350-68E				1.000	
16DE045SP	6	SB1216	Solvent Blank DCM				1.000	
16DE045SP	7	ST1216E	CS3 2350-68C				1.000	
16DE045SP	8	SB1216A	Solvent Blank DCM				1.000	
16DE045SP	9	GX4KD-1-AA	G4L040149-2	500	1625/WATER	VS54	1.052	L
16DE045SP	10	GX4KE-1-AA	G4L020149-3	500	1625/WATER		0.977	L
16DE045SP	11	GX4KF-1-AA	G4L020149-4	500	1625/WATER		0.982	L
16DE045SP	12	GX4KG-1-AA	G4L020149-5	500	1625/WATER		1.006	L
16DE045SP	13	G0XDP-1-AA	G4L080479-MB	500	1625/WATER		1.000	L
16DE045SP	14	G0XDP-1-AC	G4L080479-LCS	500	1625/WATER		1.000	L
16DE045SP	15	G0K68-1-AC	G4L080479-1	500	1625/WATER		0.943	L
16DE045SP	16	G0K69-1-AC	G4L080479-2	500	1625/WATER		0.974	L
16DE045SP	17	G0K7A-1-AC	G4L080479-3	500	1625/WATER		0.968	L
16DE045SP	18	G0K7D-1-AC	G4L080479-4	500	1625/WATER		0.928	L
16DE045SP	19	G0K7E-1-AC	G4L080479-5	500	1625/WATER		0.928	L
16DE045SP	20	G0K7F-1-AC	G4L080479-6	500	1625/WATER		0.936	L
16DE045SP	21	G0HM6-1-AE	E4L080175-4	500	1625/WATER		0.965	L
16DE045SP	22	G0HM7-1-AE	E4L080175-5	500	1625/WATER		0.995	L
16DE045SP	23	G0PC2-1-AC	G4L090480-1	500	1625/WATER		0.966	L
16DE045SP	24	G0PC4-1-AC	G4L090480-2	500	1625/WATER		0.986	L
16DE045SP	25	G0PC5-1-AC	G4L090480-3	500	1625/WATER		0.961	L
16DE045SP	26	G0MLW-1-AA	G4L090264-1	500	1625/WATER		0.966	L
16DE045SP	27	G0PDJ-1-AA	G4L090484-1	500	1625/WATER		0.962	L
16DE045SP	28	SB1216B	Solvent Blank DCM				1.000	
16DE045SP	29	ST1216F	CS3 2350-68C				1.000	
16DE045SP	30	SB1216C	Solvent Blank DCM				1.000	
16DE045SP	31	G05QJ-1-AAB	E4L090217-1MB	500	1625/WATER	VS55	1.000	L
16DE045SP	32	G05QJ-1-ACC	E4L090217-1LCS	500	1625/WATER		1.000	L
16DE045SP	33	G05QJ-1-ADL	E4L090217-1DCS	500	1625/WATER		1.000	L
16DE045SP	34	G0L86-1-AA	E4L090217-1	500	1625/WATER		0.979	L
16DE045SP	35	G0L9A-1-AA	E4L090217-2	500	1625/WATER		0.980	L
16DE045SP	36	G0L9J-1-AE	E4L090217-4	500	1625/WATER		0.974	L
16DE045SP	37	G0L93-1-AE	E4L090217-5	500	1625/WATER		0.972	L
16DE045SP	38	G0L95-1-AE	E4L090217-6	500	1625/WATER		0.984	L
16DE045SP	39	G0L99-1-AE	E4L090217-8	500	1625/WATER		0.987	L
16DE045SP	40	G0MAA-1-AE	E4L090217-9	500	1625/WATER		0.973	L
16DE045SP	41	G0MAF-1-AE	E4L090217-10	500	1625/WATER		0.988	L
16DE045SP	42	G0XAD-1-AC	G4L130173-26	500	1625/WATER		0.988	L
16DE045SP	43	G0XAG-1-AC	G4L130173-27	500	1625/WATER		0.987	L
16DE045SP	44	G0R1N-1-AC	G4L100385-1	500	1625/WATER		0.947	L
16DE045SP	45	G0R1W-1-AC	G4L100385-2	500	1625/WATER		0.990	L
16DE045SP	46	G0R10-1-AC	G4L100385-3	500	1625/WATER		0.986	L
16DE045SP	47	G0R12-1-AC	G4L100385-4	500	1625/WATER		0.953	L
16DE045SP	48	G0R14-1-AA	G4L100385-5	500	1625/WATER		0.972	L
16DE045SP	49	SB1216D	Solvent Blank DCM				1.000	
16DE045SP	50	SB1216E	Solvent Blank DCM				1.000	
16DE045SP	51	ST1216G	CS3 2350-68C				1.000	
16DE045SP	52	SB1216F	Solvent Blank DCM				1.000	
16DE045SP	53	G04X9-1-AAB	G4L130173-1MB	500	1625/SOLID	VS55	10.000	g

16DE045SP	54	G04X9-1-ACC	G4L130173-1LCS	500	1625/SOLID	10.000 g
16DE045SP	55	G0W7T-1-AC	G4L130173-1	500	1625/SOLID	10.000 g
16DE045SP	56	G0W7X-1-AC	G4L130173-2	500	1625/SOLID	10.000 g
16DE045SP	57	G0W70-1-AC	G4L130173-3	500	1625/SOLID	10.000 g
16DE045SP	58	G0W74-1-AC	G4L130173-4	500	1625/SOLID	10.000 g
16DE045SP	59	G0W77-1-AC	G4L130173-5	500	1625/SOLID	10.000 g
16DE045SP	60	G0W77-1-AFS	G4L130173-5MS	500	1625/SOLID	10.000 g
16DE045SP	61	G0W77-1-AGD	G4L130173-5SD	500	1625/SOLID	10.000 g
16DE045SP	62	G0W79-1-AD	G4L130173-6	500	1625/SOLID	10.000 g
16DE045SP	63	G0W8D-1-AD	G4L130173-7	500	1625/SOLID	10.000 g
16DE045SP	64	G0W8F-1-AD	G4L130173-8	500	1625/SOLID	10.000 g
16DE045SP	65	G0W8J-1-AD	G4L130173-9	500	1625/SOLID	10.000 g
16DE045SP	66	G0W8K-1-AD	G4L130173-10	500	1625/SOLID	10.000 g
16DE045SP	67	G0W8N-1-AD	G4L130173-11	500	1625/SOLID	10.000 g
16DE045SP	68	G0W8R-1-AD	G4L130173-12	500	1625/SOLID	10.000 g
16DE045SP	69	G0W8W-1-AD	G4L130173-13	500	1625/SOLID	10.000 g
16DE045SP	70	G0W82-1-AD	G4L130173-14	500	1625/SOLID	10.000 g
16DE045SP	71	G0W84-1-AD	G4L130173-15	500	1625/SOLID	10.000 g
16DE045SP	72		G4L130173-16	500	1625/SOLID	10.000 g
16DE045SP	73	G0W9D-1-AD	G4L130173-17	500	1625/SOLID	10.000 g
16DE045SP	74	G0W9G-1-AD	G4L130173-18	500	1625/SOLID	10.000 g
16DE045SP	75	G0W9H-1-AD	G4L130173-19	500	1625/SOLID	10.000 g
16DE045SP	76	G0407-1-ACC	G4L130173-20LCS	500	1625/SOLID	10.000 g
16DE045SP	77	G0407-1-AAB	G4L130173-20MB	500	1625/SOLID	10.000 g
16DE045SP	78	G0W9N-1-AD	G4L130173-20	500	1625/SOLID	10.000 g
16DE045SP	79	G0W9N-1-AJS	G4L130173-20MS	500	1625/SOLID	10.000 g
16DE045SP	80	G0W9N-1-AKD	G4L130173-20SD	500	1625/SOLID	10.000 g
16DE045SP	81	G0W9Q-1-AD	G4L130173-21	500	1625/SOLID	10.000 g
16DE045SP	82	G0W9W-1-AD	G4L130173-22	500	1625/SOLID	10.000 g
16DE045SP	83	G0W93-1-AD	G4L130173-23	500	1625/SOLID	10.000 g
16DE045SP	84	G0W95-1-AD	G4L130173-24	500	1625/SOLID	10.000 g
16DE045SP	85	G0W98-1-CD	G4L130173-25	500	1625/SOLID	10.000 g
16DE045SP	86	SB1216G	Solvent Blank DCM			1.000
16DE045SP	87	SB1216H	Solvent Blank DCM			1.000
16DE045SP	88	ST1216H	CS3 2350-68C			1.000
16DE045SP	89					1.000
16DE045SP	90					1.000
16DE045SP	91					1.000
16DE045SP	92					1.000

AM 12-16-04

Peak Locate Examination:16-DEC-2004:18:36 File:16DE045SP  
Experiment:NDMAVOA Function:1 Reference:PFK



Run: 16DE045SPIC<sub>7</sub> Analyte: 1625

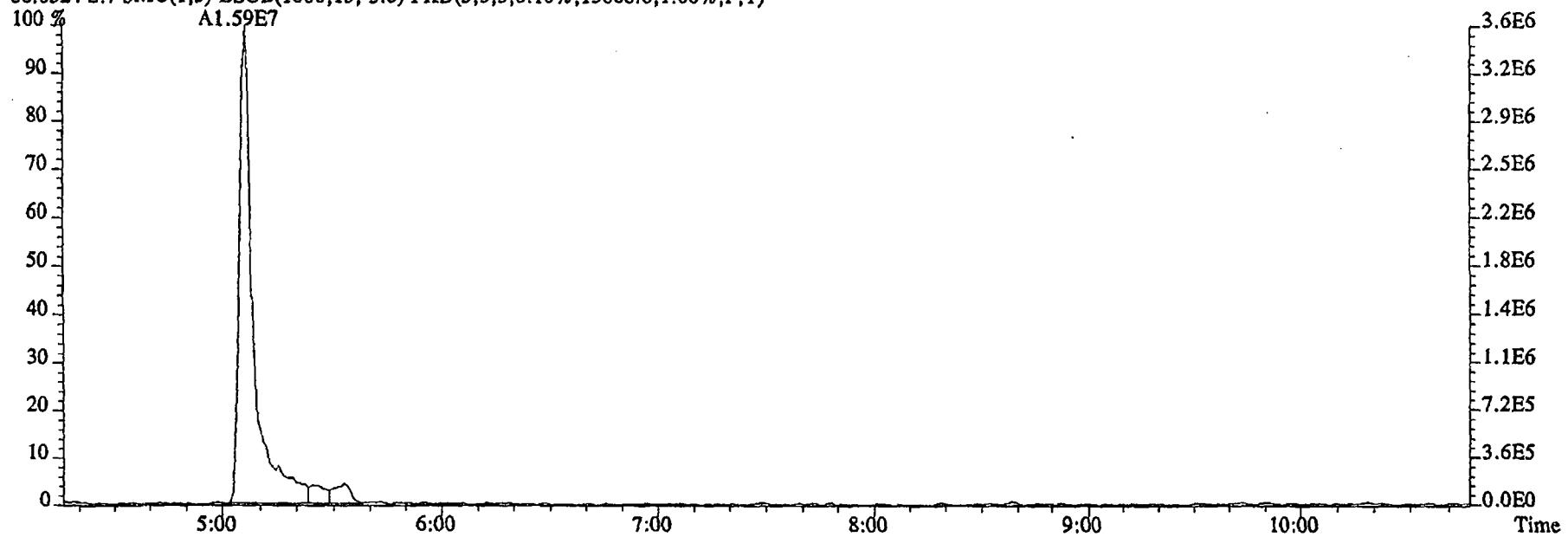
Cal: 16251216045SP

ST1216 :CS1 2350-68A  
ST1216C :CS4 2350-68DST1216A :CS2 2350-68B  
ST1216D :CS5 2350-68E

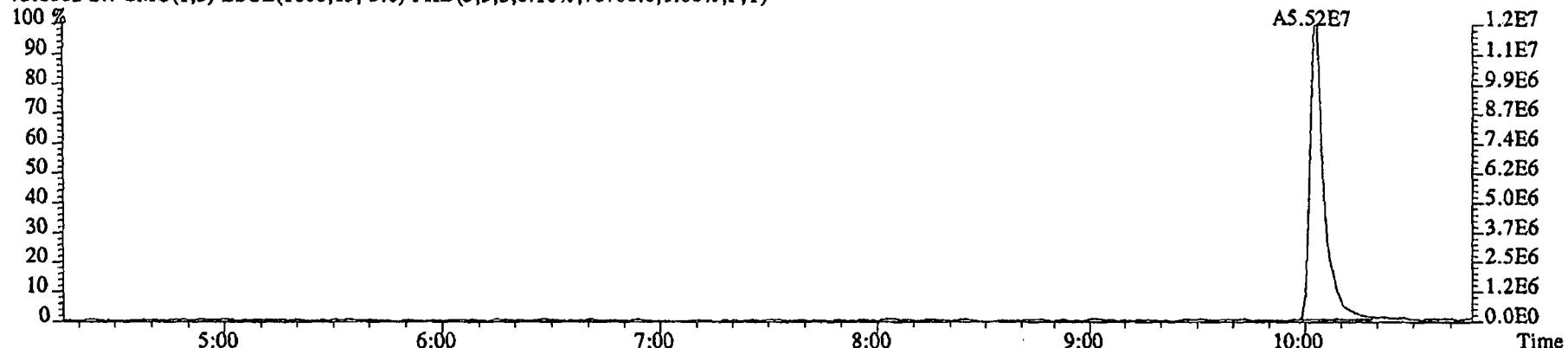
ST1216B :CS3 2350-68C

Name	Mean	S. D.	%RSD	16DE045SP				
				S1	S2	S3	S4	S5
RRF1	RRF2	RRF3	RRF4	RRF5				
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.655	0.110	16.8 %	0.59	0.60	0.76	0.79	0.54
1,4-Dioxane	1.054	0.135	12.8 %	1.07	0.90	0.96	1.09	1.25
D5-123-TriChloroPropane	2.351	0.108	4.60 %	2.53	2.35	2.28	2.25	2.35
1,2,3-TriChloroPropane	0.482	0.031	6.41 %	0.46	0.45	0.47	0.52	0.51
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	1.481	0.073	4.91 %	1.50	1.43	1.38	1.52	1.57
NDMA	1.374	0.065	4.74 %	1.29	1.32	1.39	1.44	1.42
2-Chloropyridine	-	-	- %	-	-	-	-	-

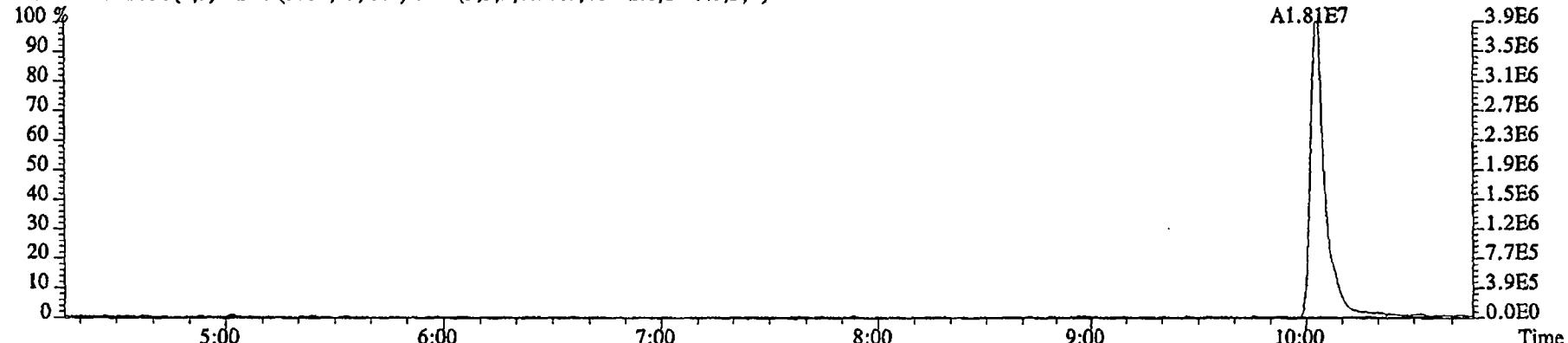
File:16DE045SP #1-481 Acq:16-DEC-2004 20:40:23 GC EI + Voltage SIR 70SE  
Sample#7 Text:ST1216E :CS3 2350-68C Exp:NDMAVOA  
88.0524 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13068.0,1.00%,F,T)



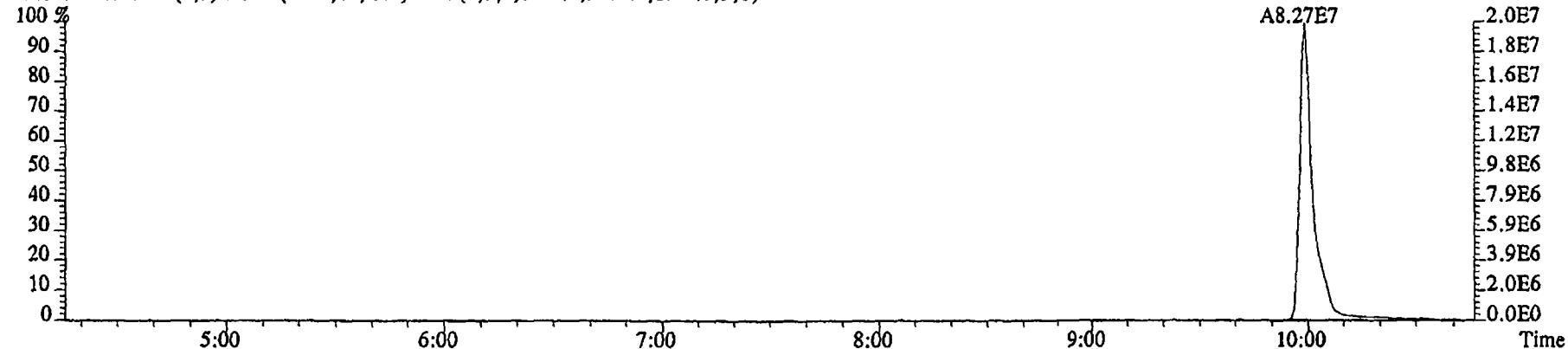
File:16DE045SP #1-481 Acq:16-DEC-2004 20:40:23 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST1216E CS3 2350-68C Exp:NDMAVOA  
 75.0002 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76700.0,1.00%,F,T)



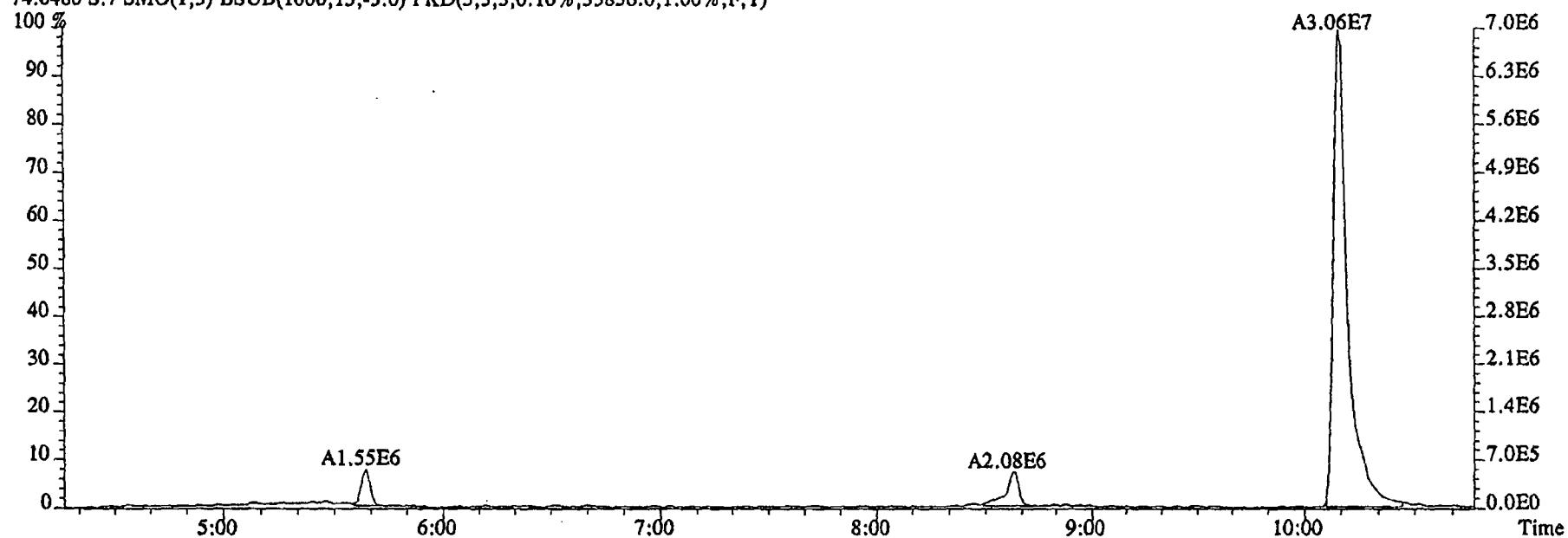
76.9972 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11032.0,1.00%,F,T)



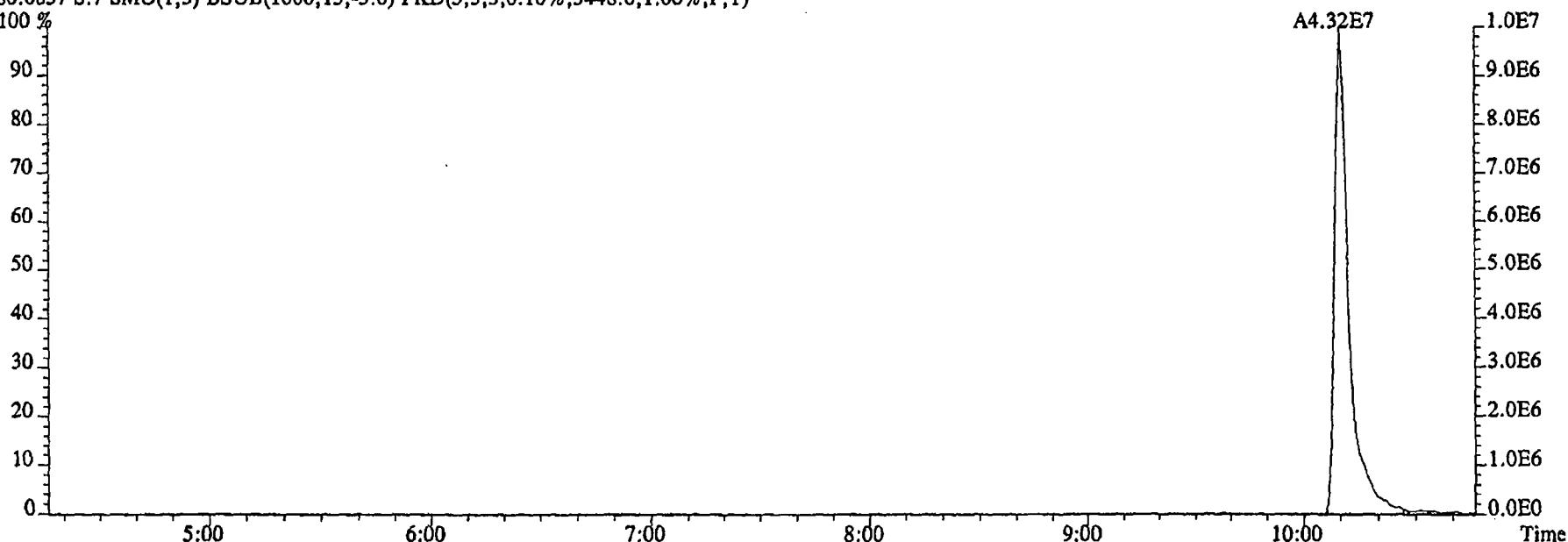
79.0253 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5804.0,1.00%,F,T)



File:16DE045SP #1-481 Acq:16-DEC-2004 20:40:23 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1216E :CS3 2350-68C Exp:NDMAVOA  
74.0480 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33836.0,1.00%,F,T)



80.0857 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3448.0,1.00%,F,T)

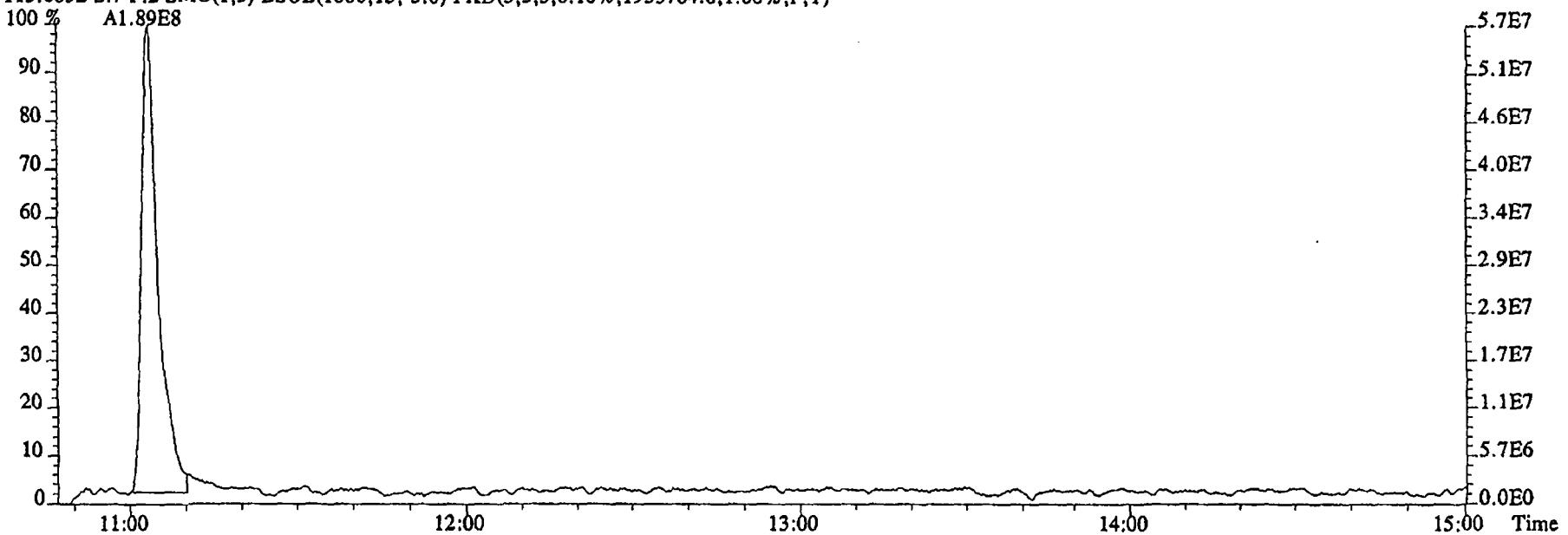


File:16DE045SP #1-590 Acq:16-DEC-2004 20:40:23 GC EI + Voltage SIR 70SE

Sample#7 Text:ST1216E :CS3 2350-68C Exp:NDMAVOA

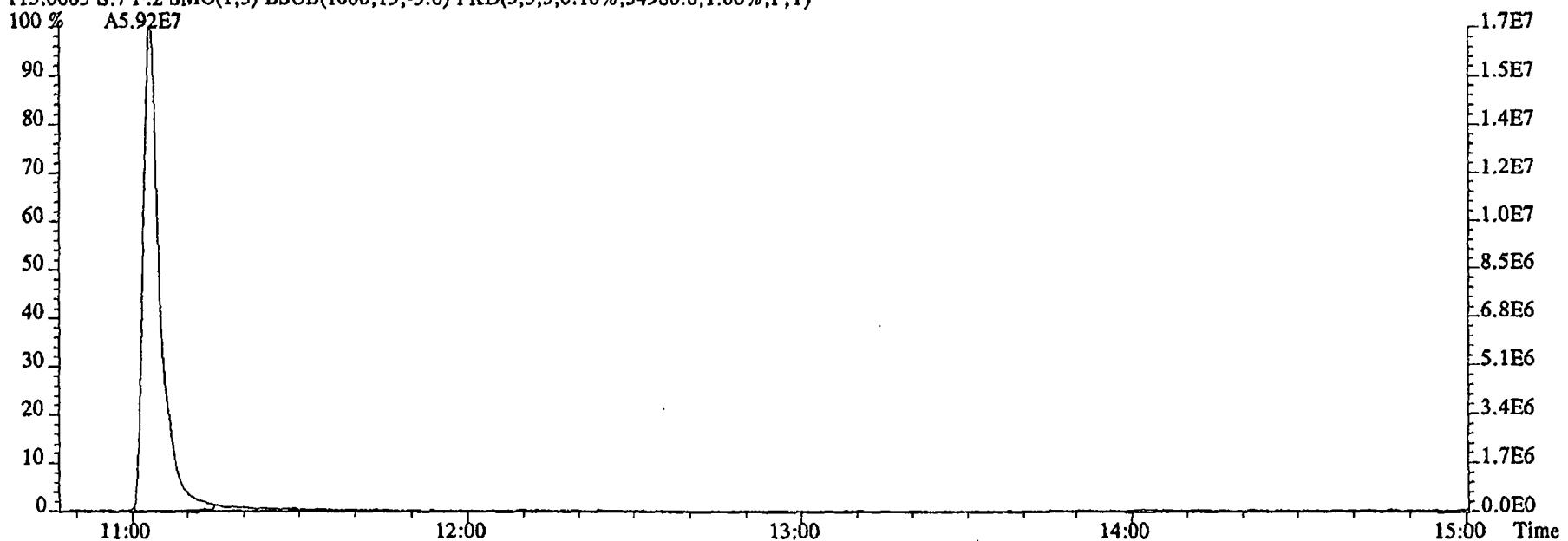
113.0032 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1953764.0,1.00%,F,T)

100 % A1.89E8

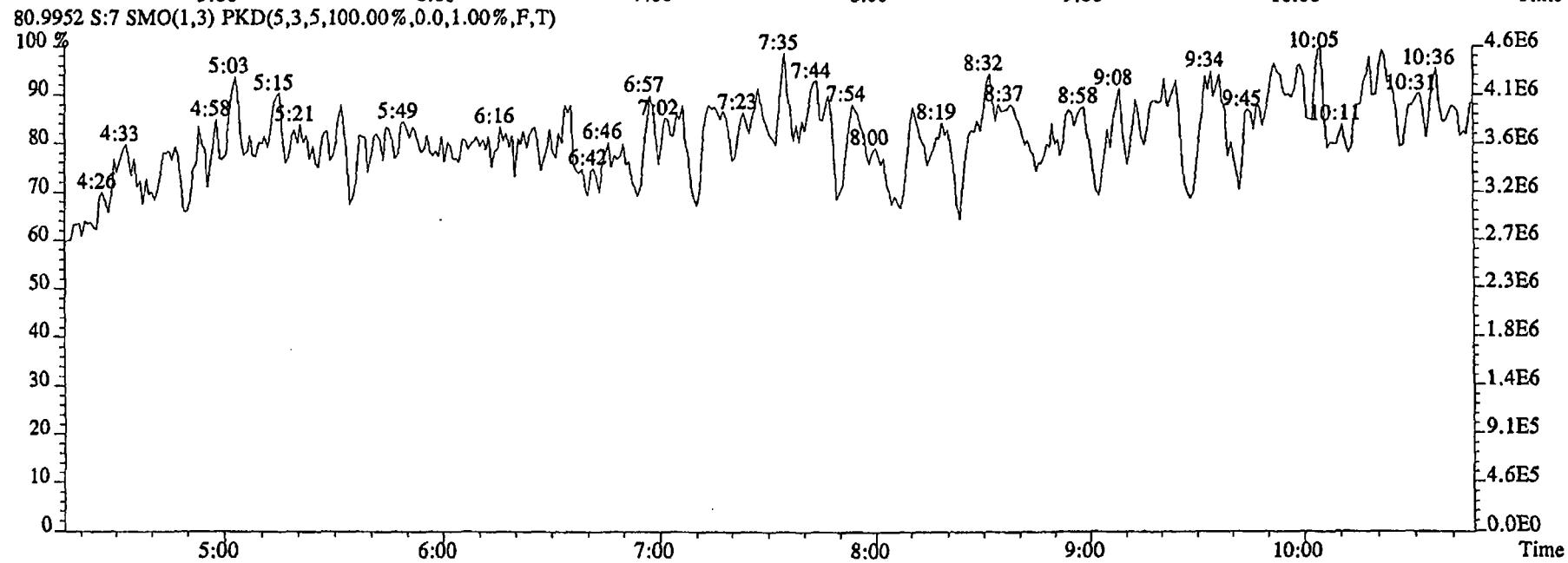
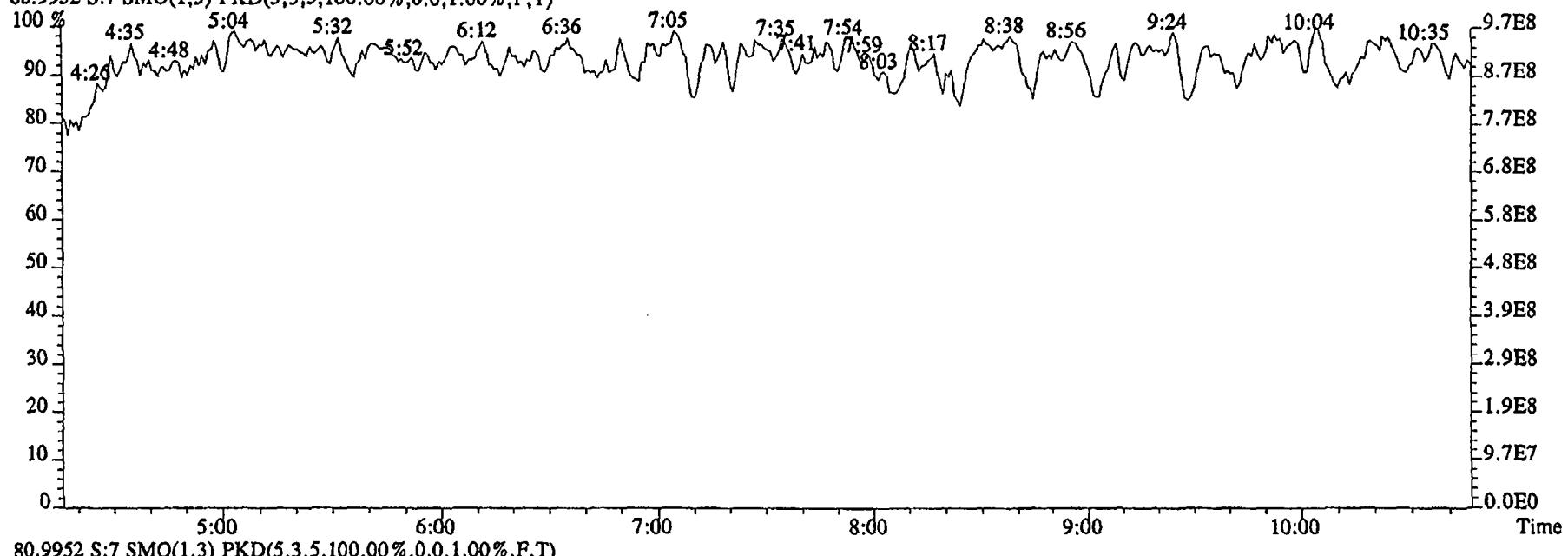


115.0003 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34980.0,1.00%,F,T)

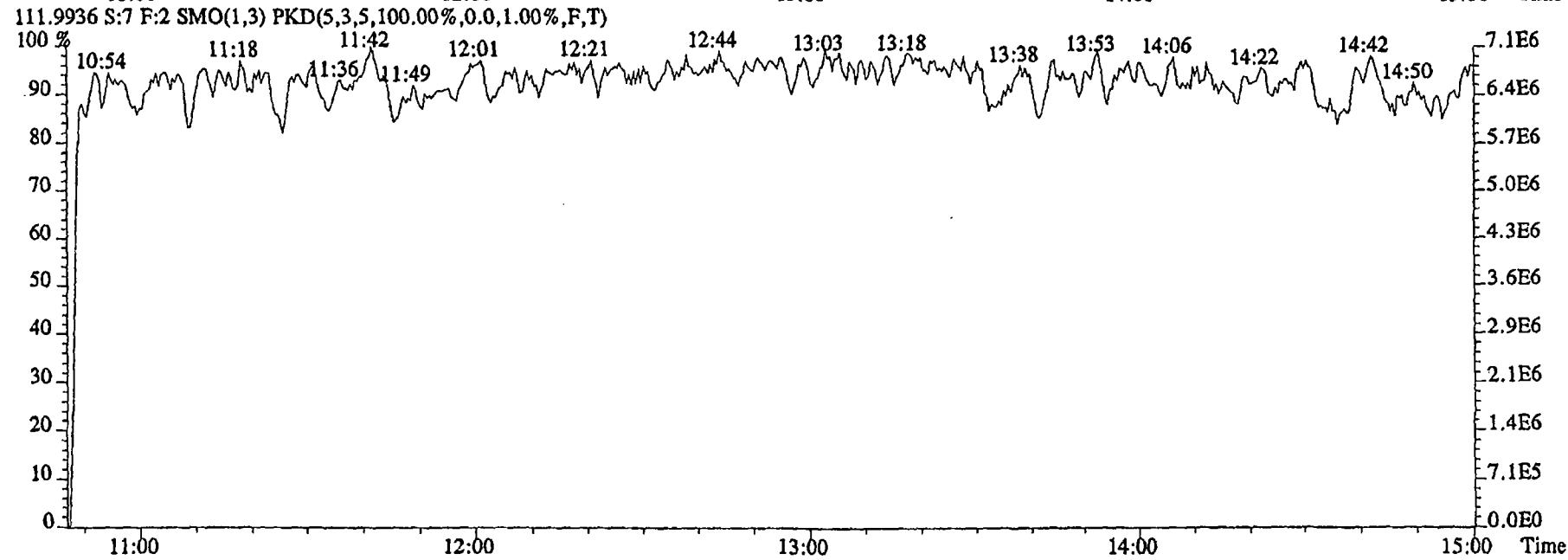
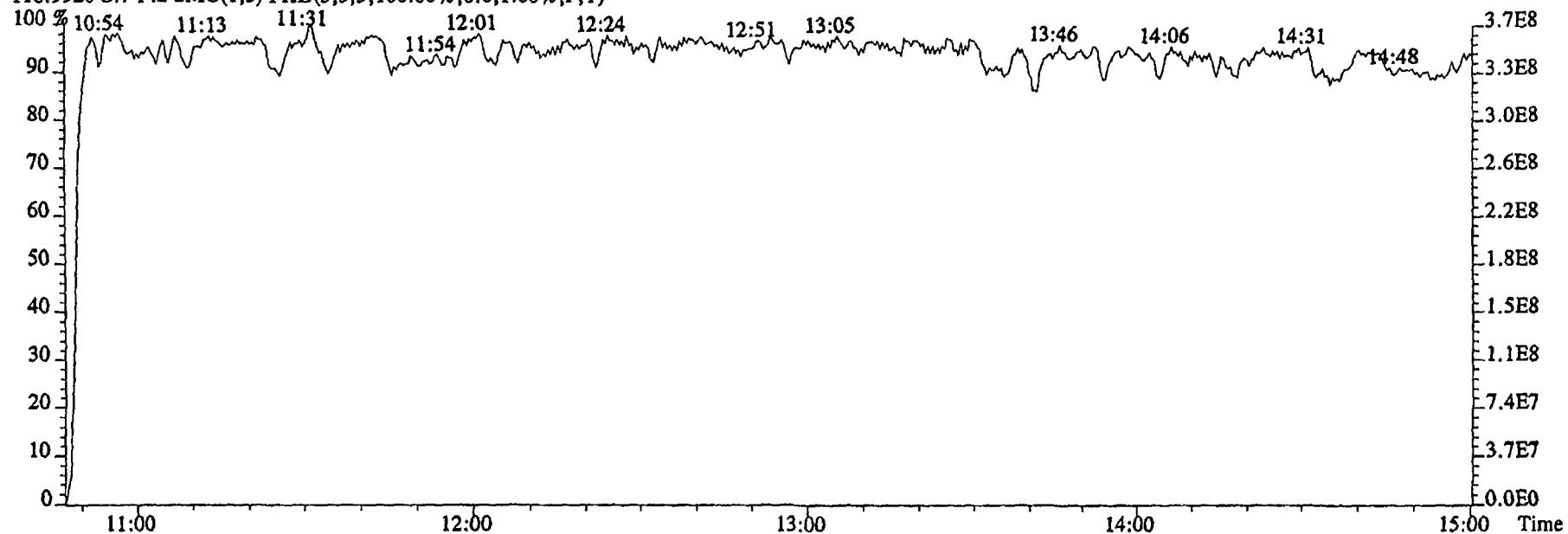
100 % A5.92E7



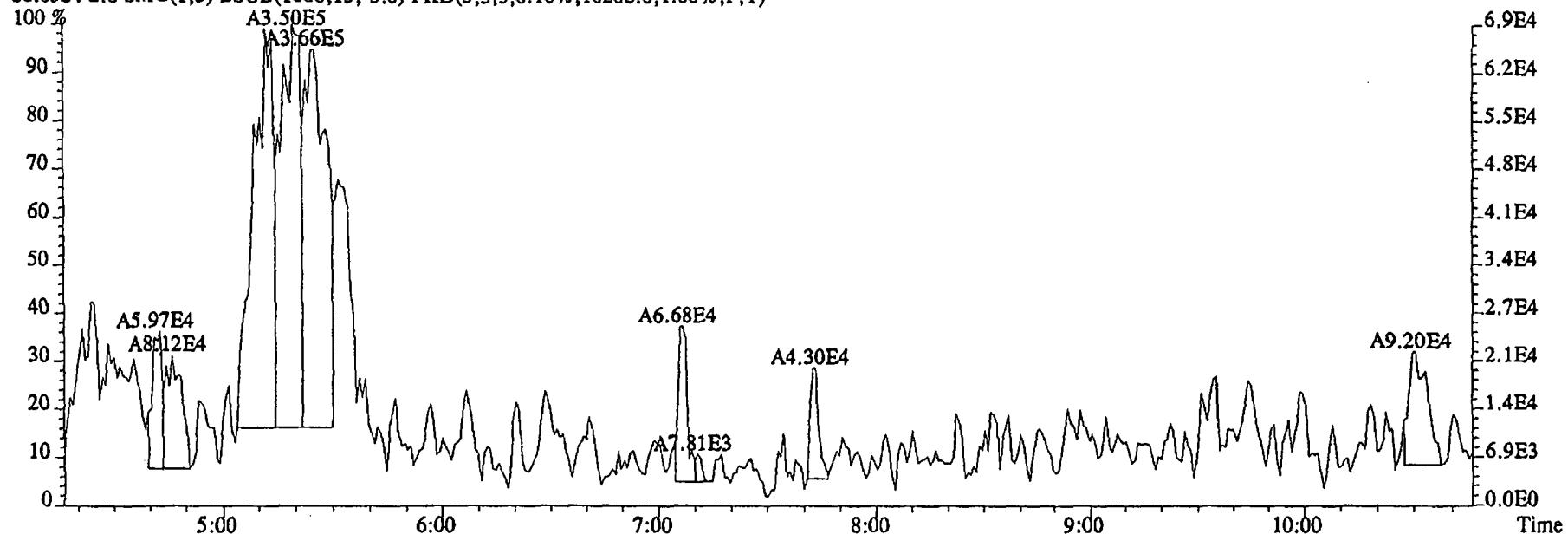
File:16DE045SP #1-481 Acq:16-DEC-2004 20:40:23 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:ST1216E :CS3 2350-68C Exp:NDMAVOA  
 68.9952 S:7 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



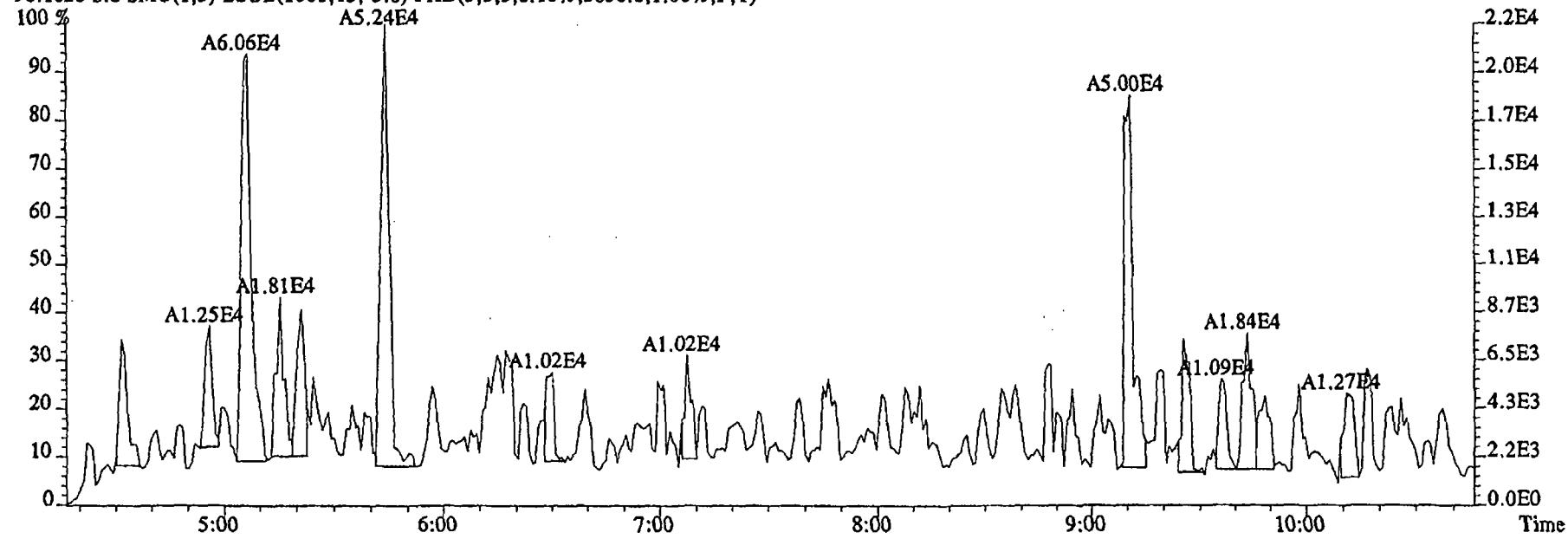
File:16DE045SP #1-590 Acq:16-DEC-2004 20:40:23 GC EI+ Voltage SIR 70SE  
Sample#7 Text:ST1216E :CS3 2350-68C Exp:NDMAVOA  
118.9920 S:7 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



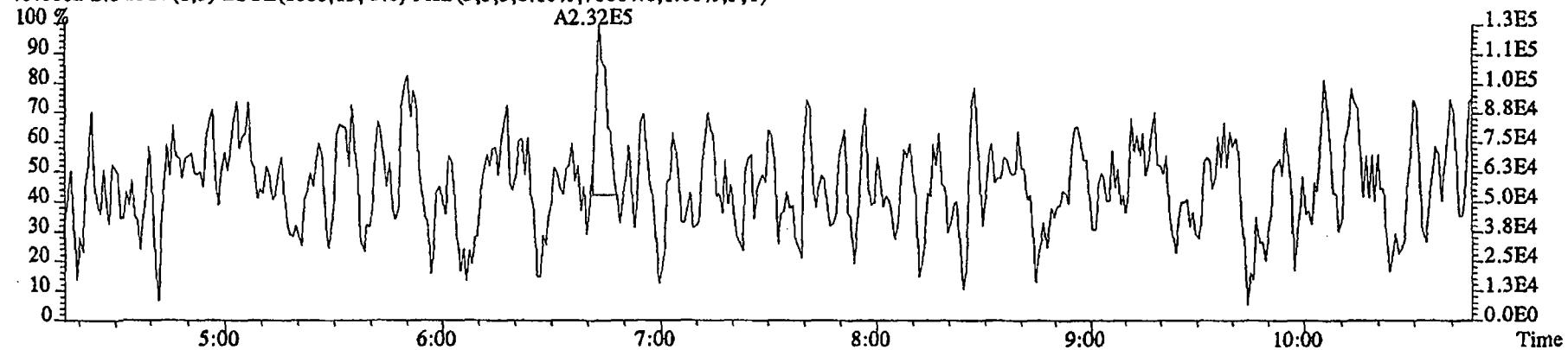
File:16DE045SP #1-480 Acq:16-DEC-2004 21:00:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:SB1216A Solvent Blank DCM Exp:NDMAVOA  
 88.0524 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10208.0,1.00%,F,T)



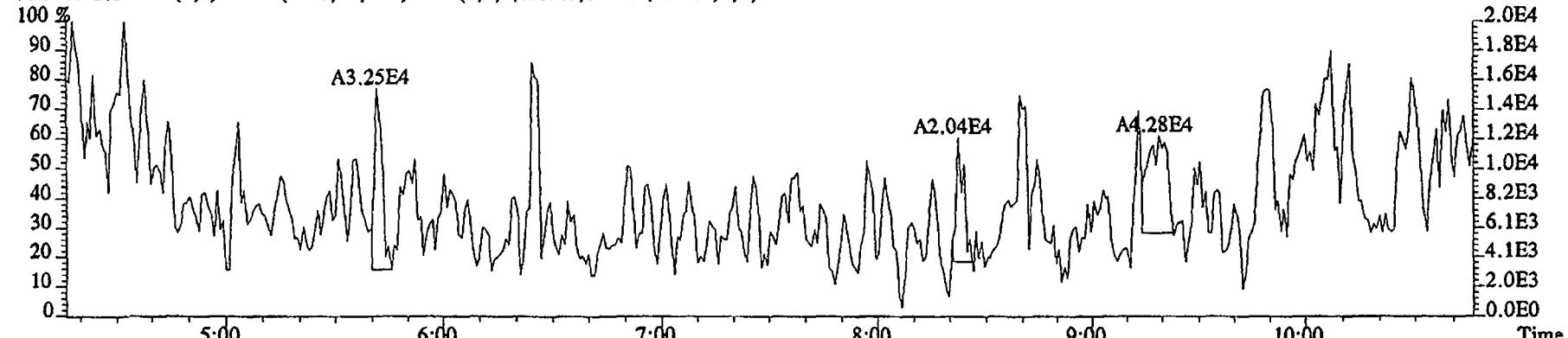
96.1026 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3636.0,1.00%,F,T)



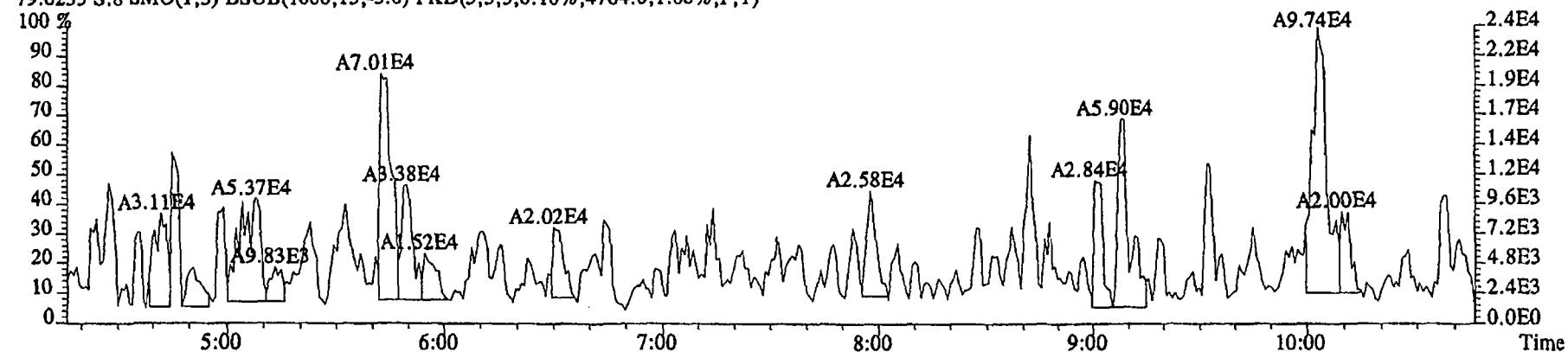
File:16DE045SP #1-480 Acq:16-DEC-2004 21:00:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:SB1216A :Solvent Blank DCM Exp:NDMAVOA  
 75.0002 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76664.0,1.00%,F,T)



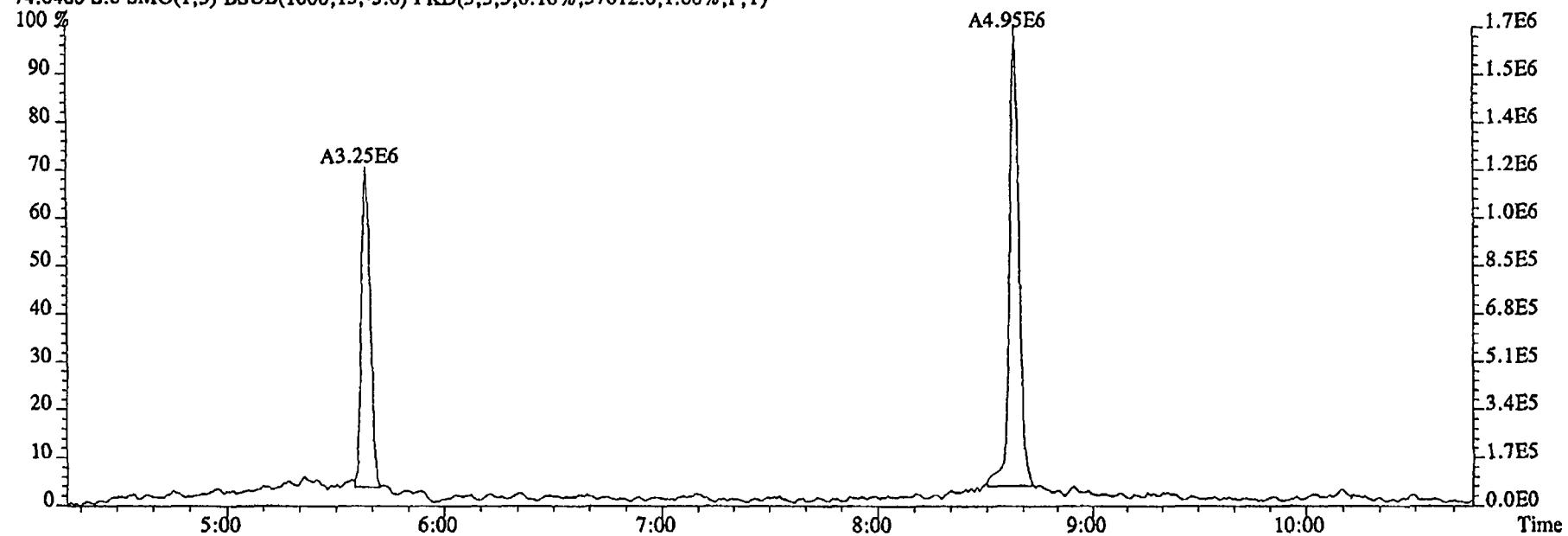
76.9972 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8776.0,1.00%,F,T)



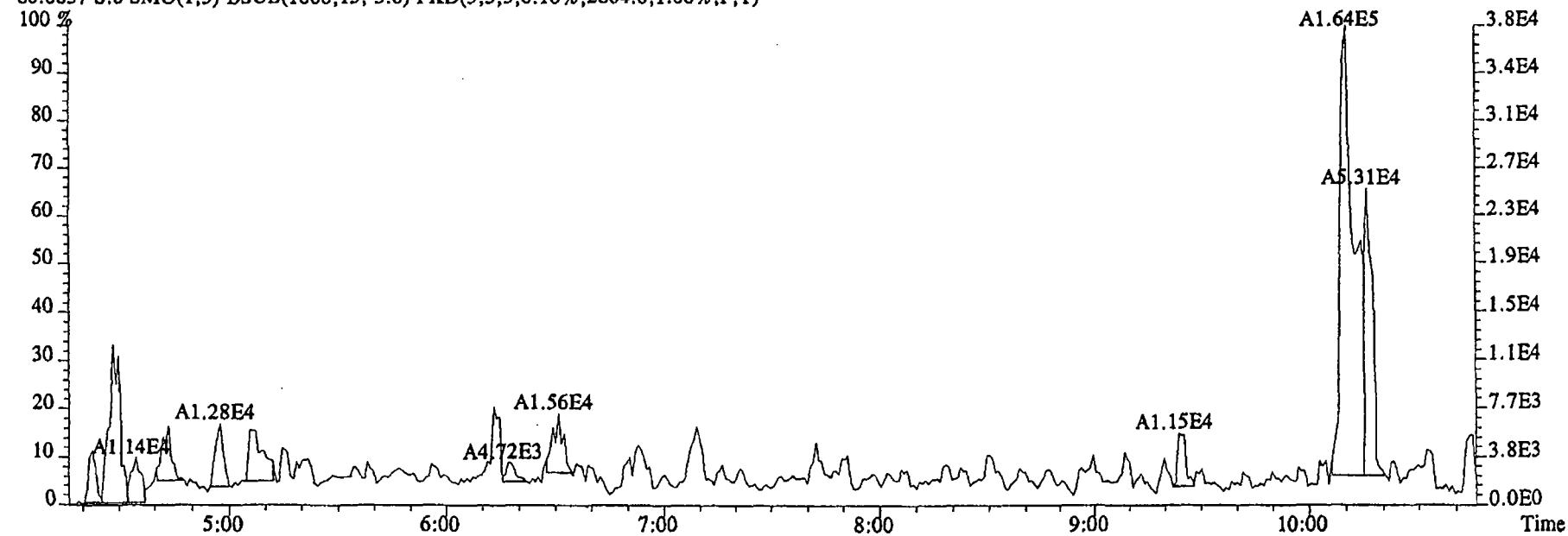
79.0253 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4764.0,1.00%,F,T)



File:16DE045SP #1-480 Acq:16-DEC-2004 21:00:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:SB1216A :Solvent Blank DCM Exp:NDMAVOA  
 74.0480 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37012.0,1.00%,F,T)



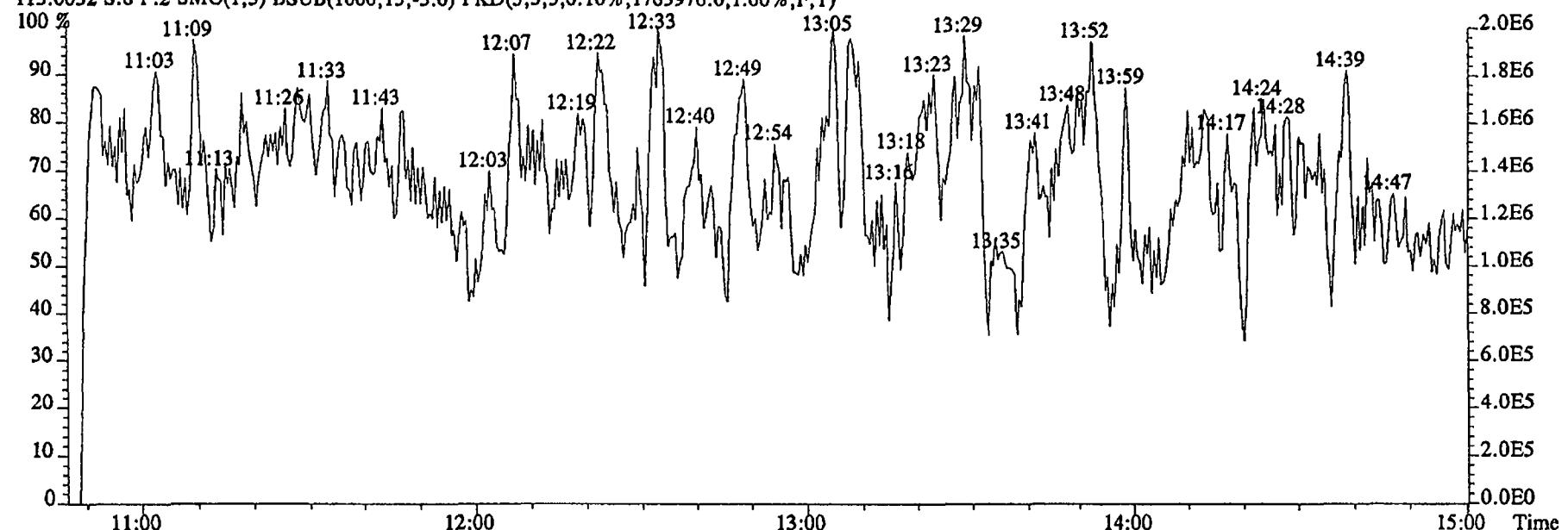
80.0857 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2804.0,1.00%,F,T)



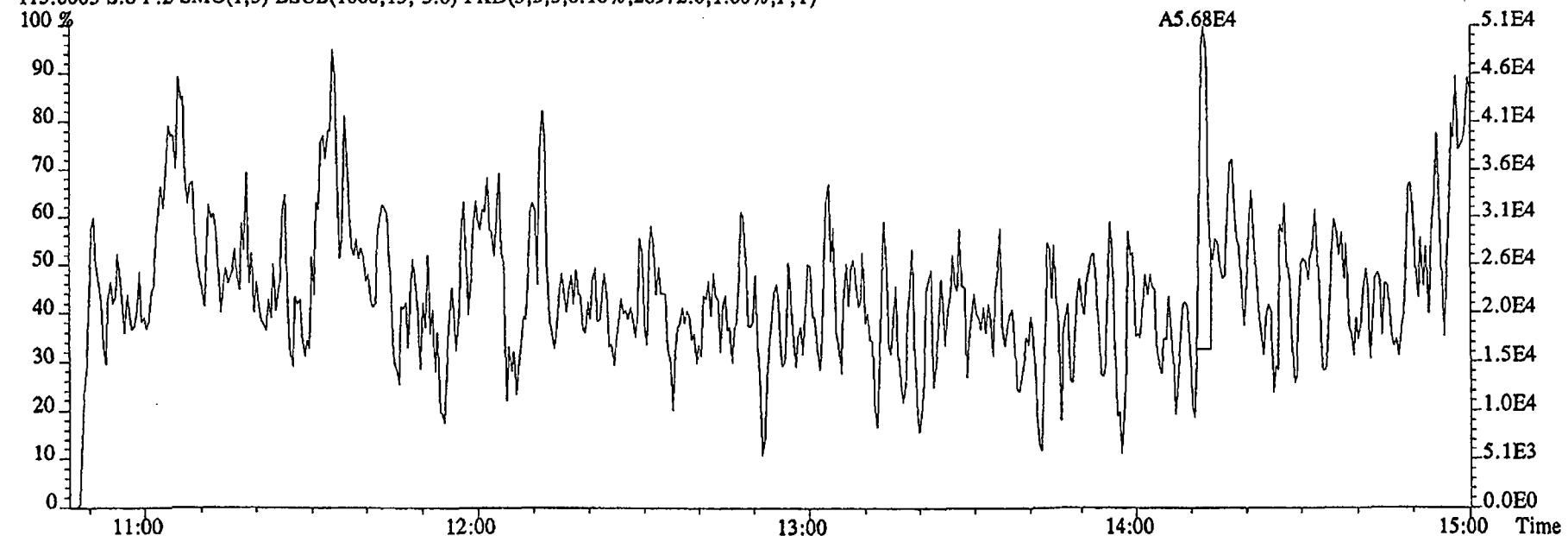
File:16DE045SP #1-591 Acq:16-DEC-2004 21:00:44 GC EI+ Voltage SIR 70SE

Sample#8 Text:SB1216A :Solvent Blank DCM Exp:NDMAVOA

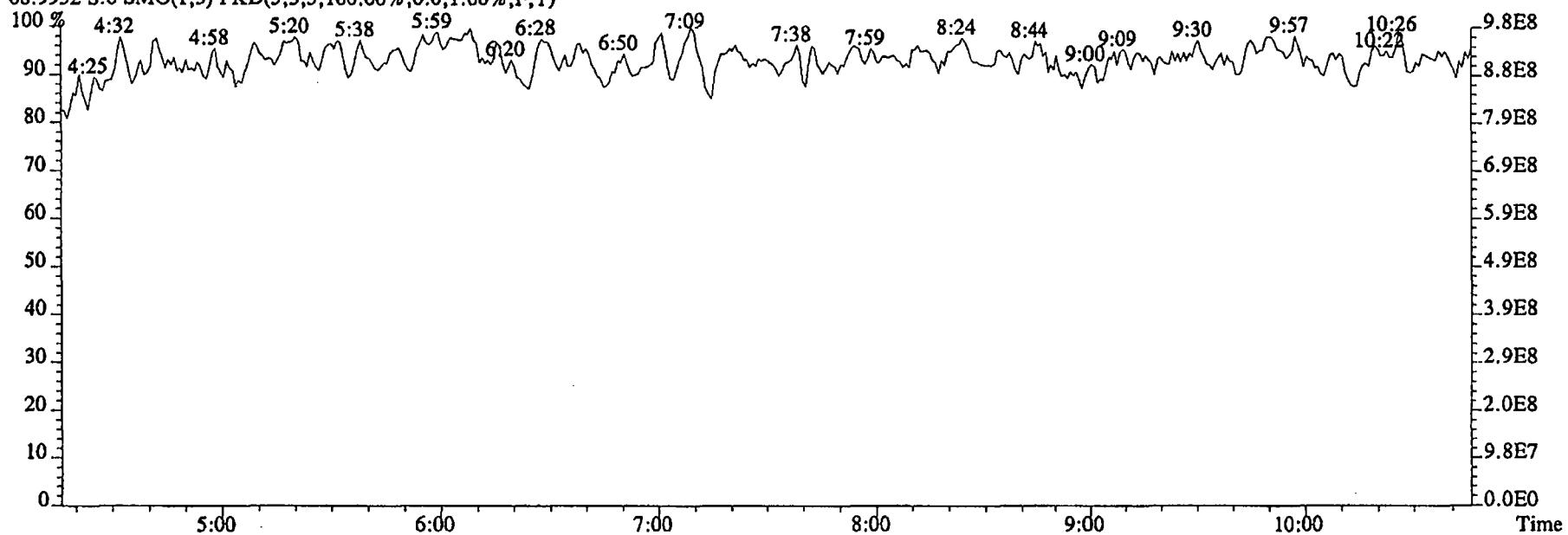
113.0032 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1763976.0,1.00%,F,T)



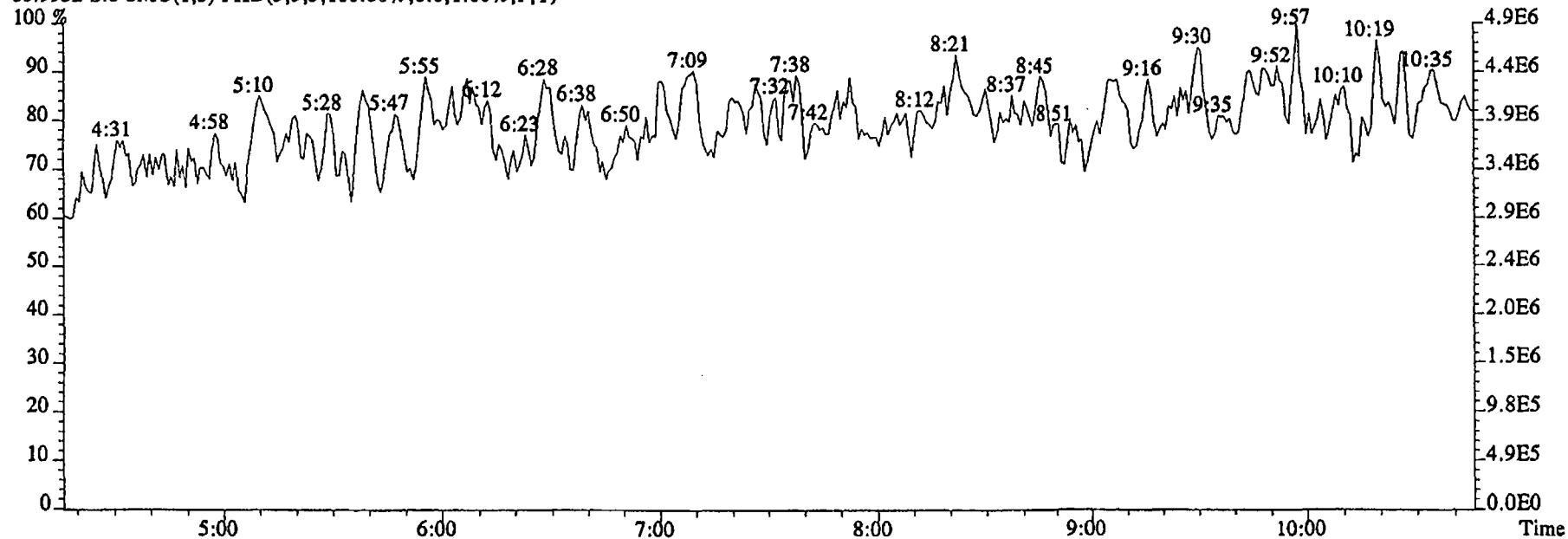
115.0003 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28972.0,1.00%,F,T)



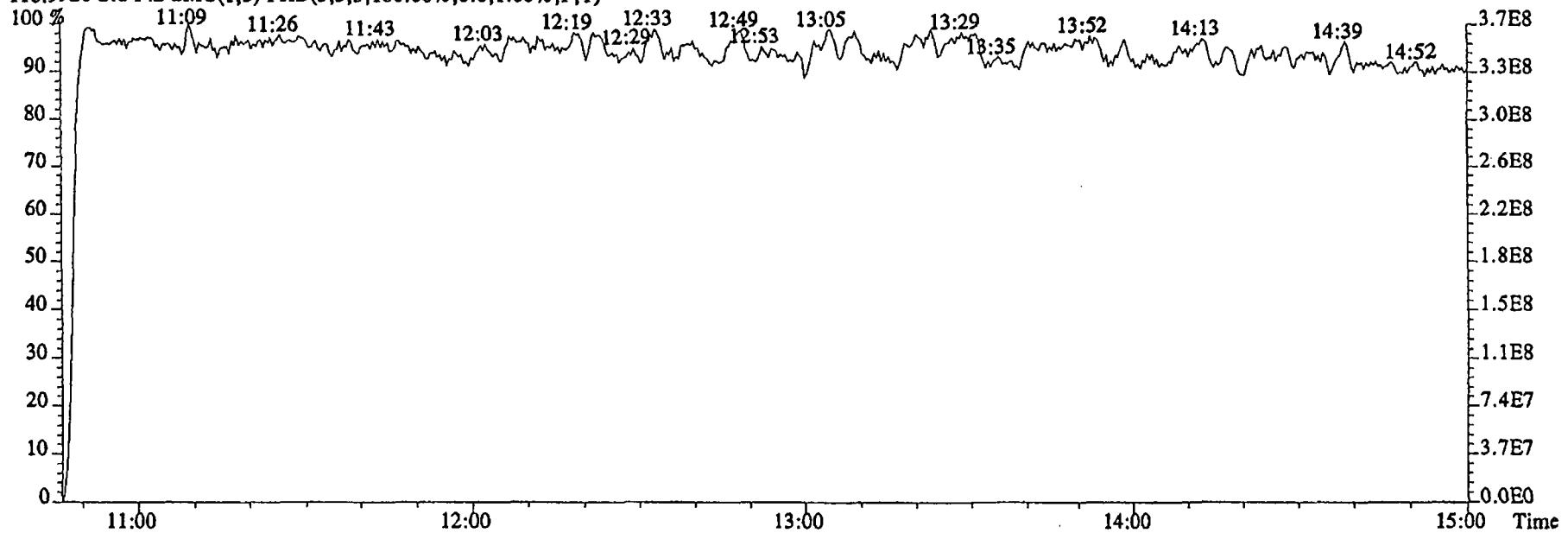
File:16DE045SP #1-480 Acq:16-DEC-2004 21:00:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:SB1216A :Solvent Blank DCM Exp:NDMAVOA  
 68.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



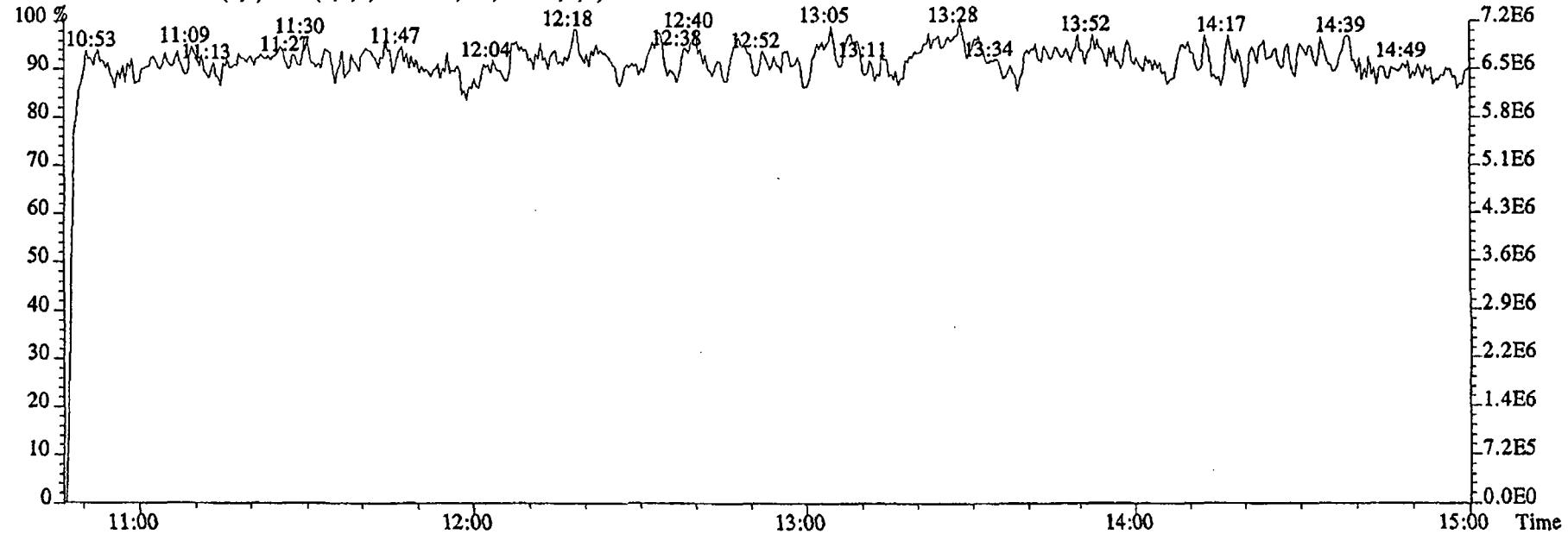
80.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:16DE045SP #1-591 Acq:16-DEC-2004 21:00:44 GC EI+ Voltage SIR 70SE  
Sample#8 Text:SB1216A :Solvent Blank DCM Exp:NDMAVOA  
118.9920 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

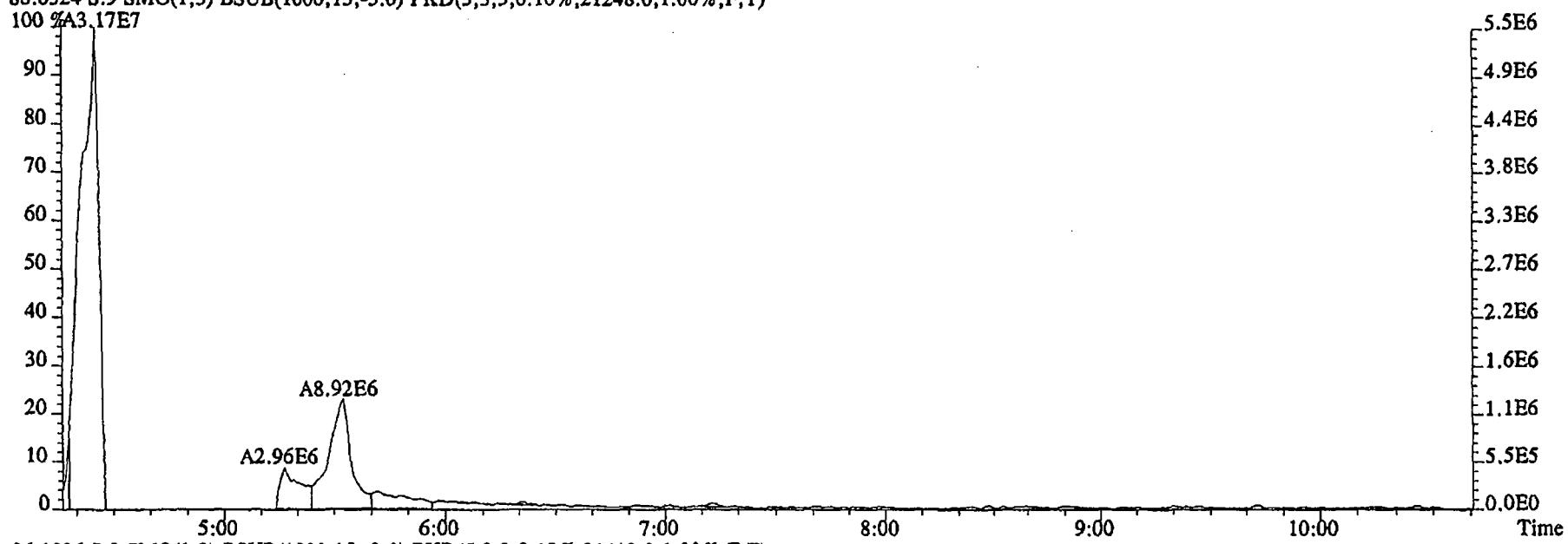


Run text: G1NWF-1-AAB      Sample text: G1NWF-1-AAB :G4L080479-1MBRX  
 Run #8    Filename: 29DE045SP    S: 9    I: 1    Results: 29DE045SP1625  
 Acquired: 29-DEC-04    16:14:36    Processed: 29-DEC-04    21:42:52  
 Run: 29DE045SP    Analyte: 1625    Cal: 16251229045SP  
 Factor 1: 1.000    Factor 2: 1.000    Sample size: 1.000    L

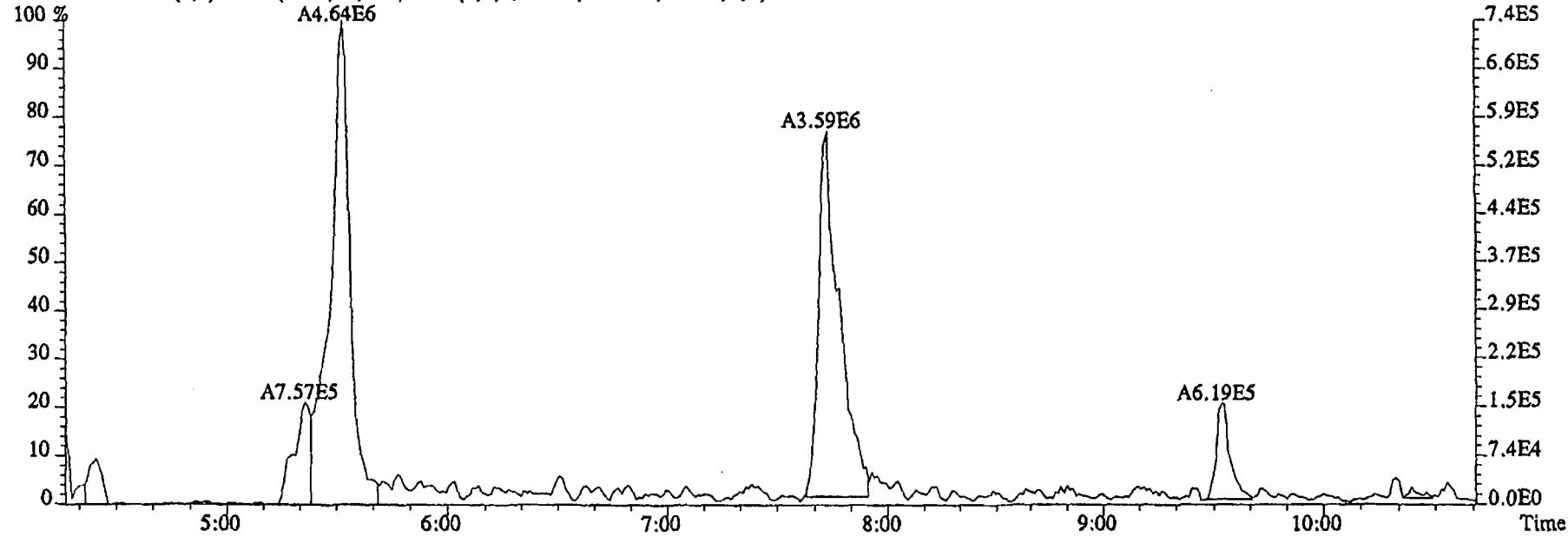
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	135092000		11:09	-	727.08	-	-	n
D8-1,4-Dioxane	756893		5:21	1.11	1.01	0.28	0.1	n
1,4-Dioxane	2961720		5:16	1.89	2070.75	219.59	-	n
D5-123-TriChloroPropane	169729000		10:06	2.68	93.59	0.03	93.6	n
1,2,3-TriChloroPropane	211167		10:10	0.44	0.28	0.16	-	n
1,2,3-TriChloroPropane	598397		10:10	-	0.90	-	-	n
D6-NDMA	35242400		10:17	1.68	31.01	0.00	31.0	n
NDMA	8483810		10:16	1.37	17.60	1.16	-	n
2-Chloropyridine	418477000		11:09	-	711.63	-	-	n

12-30-02  
a'

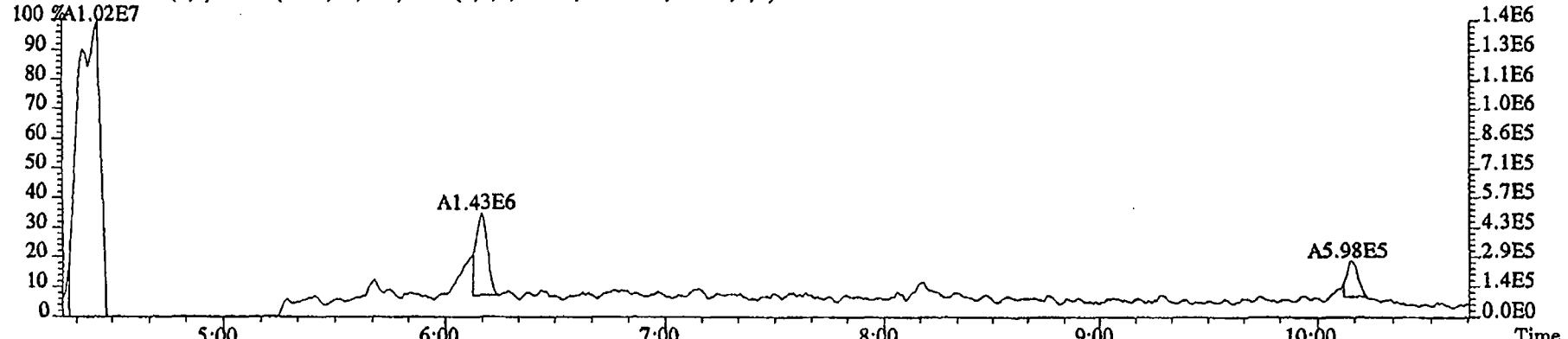
File:29DE045SP #1-474 Acq:29-DEC-2004 16:14:36 GC EI+ Voltage SIR 70SE  
Sample#9 Text:G1NWF-1-AAB :G4L080479-1MBRX Exp:NDMAVOA  
88.0524 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21248.0,1.00%,F,T)  
100 %A3.17E7



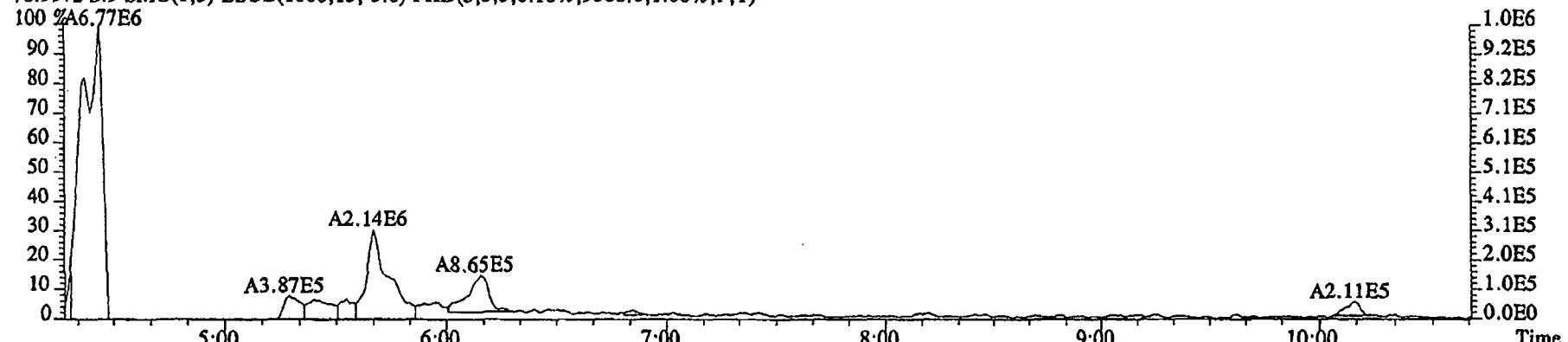
96.1026 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21412.0,1.00%,F,T)



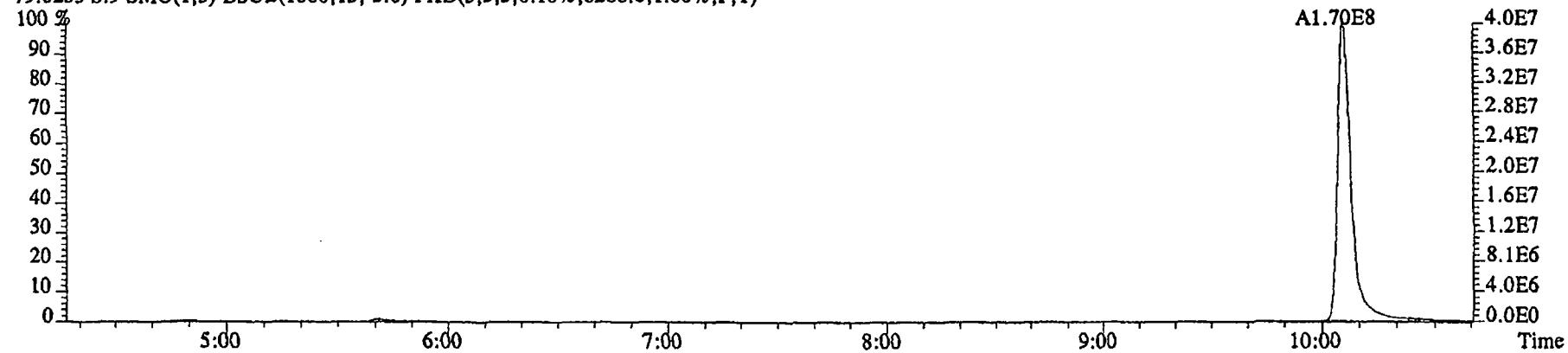
File:29DE045SP #1-474 Acq:29-DEC-2004 16:14:36 GC El+ Voltage SIR 70SE  
 Sample#9 Text:G1NWF-1-AAB :G4L080479-1MBRX Exp:NDMAVOA  
 75.0002 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,115272.0,1.00%,F,T)



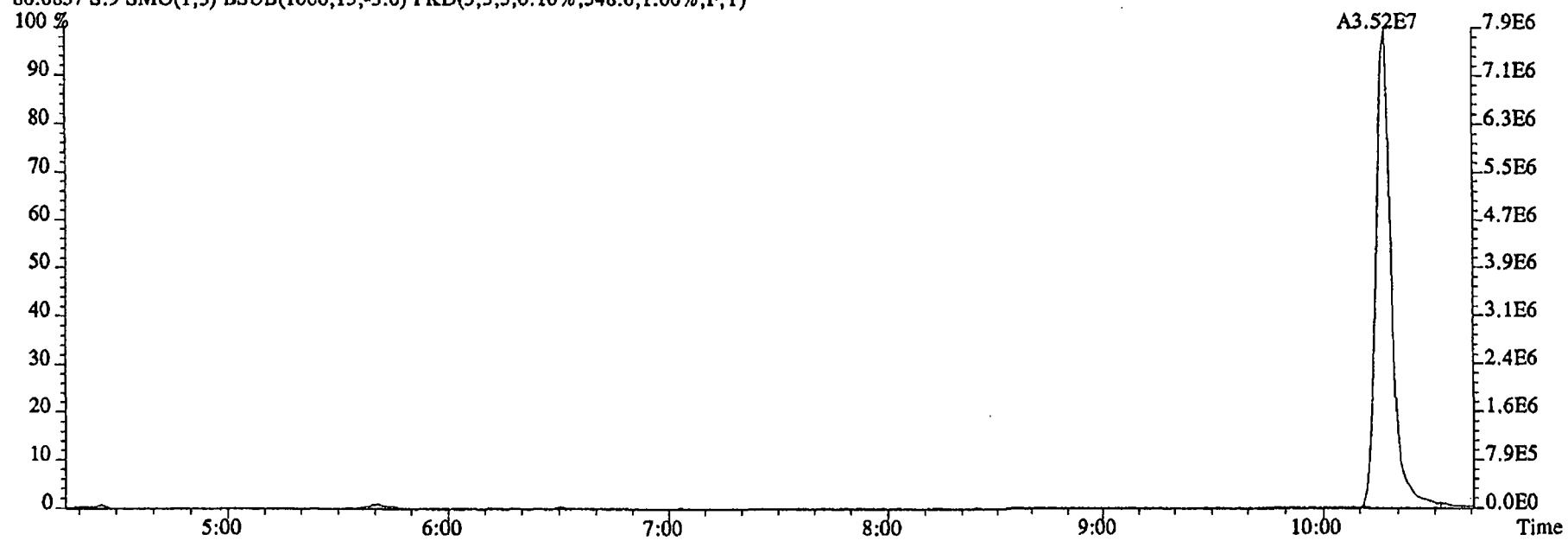
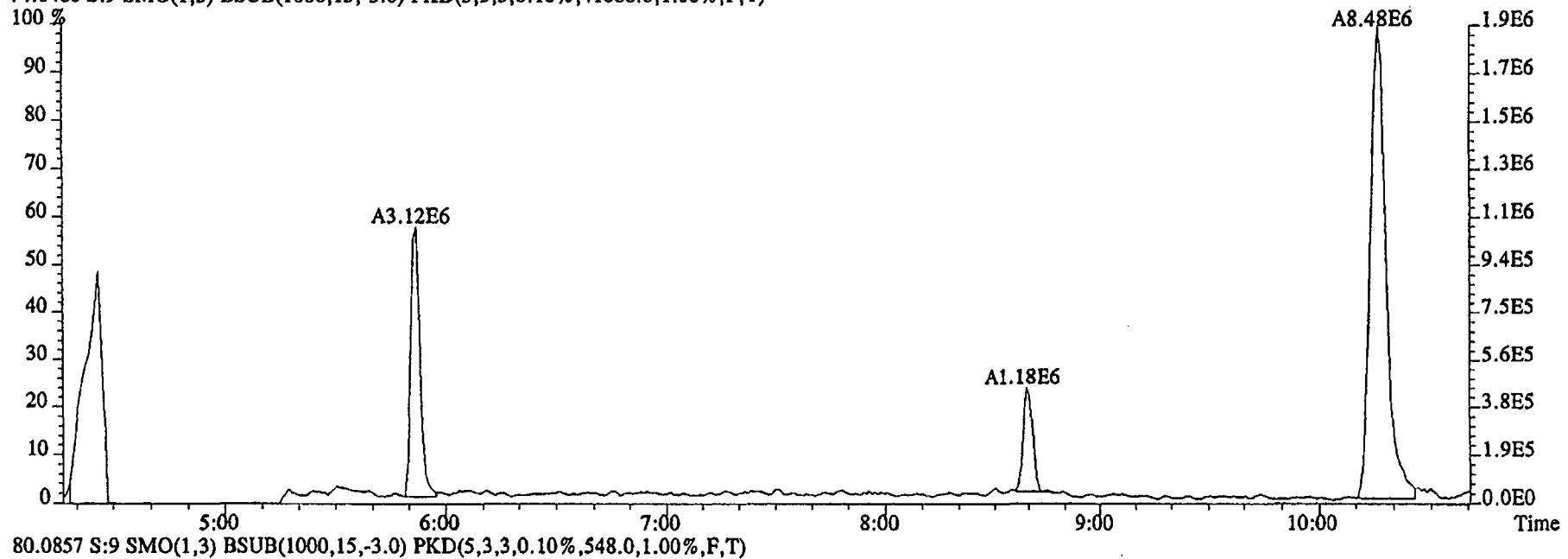
76.9972 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9308.0,1.00%,F,T)



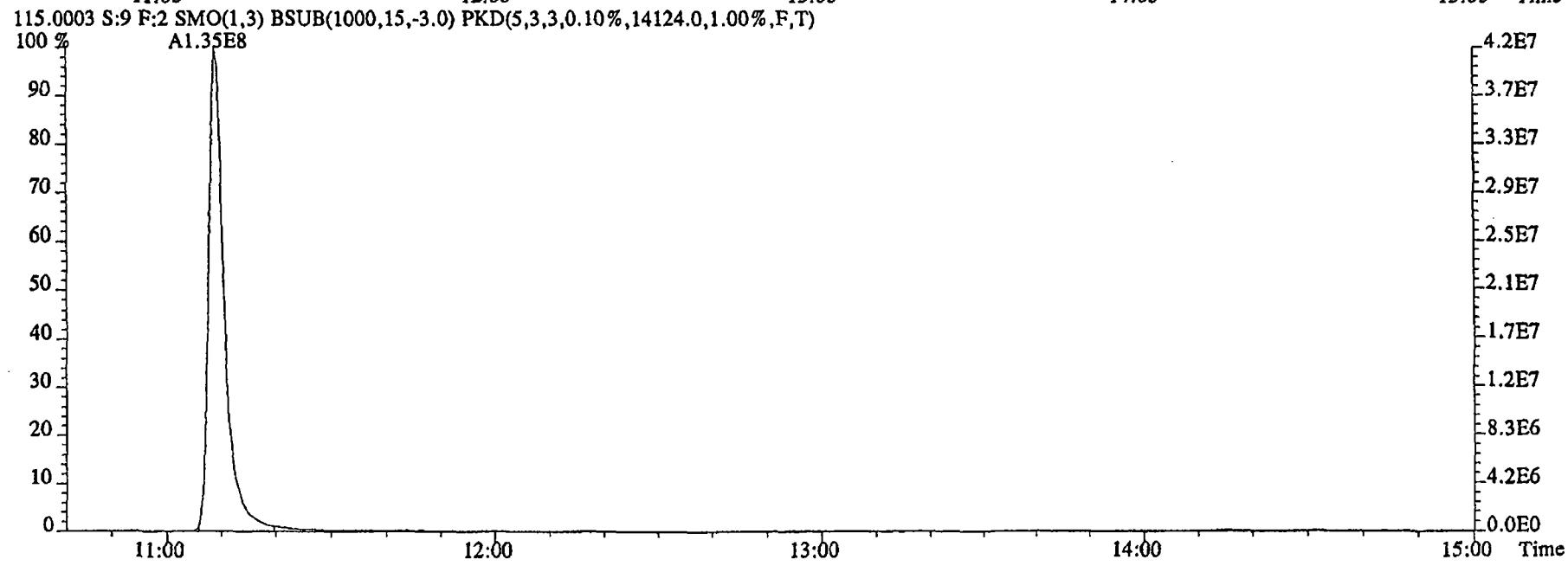
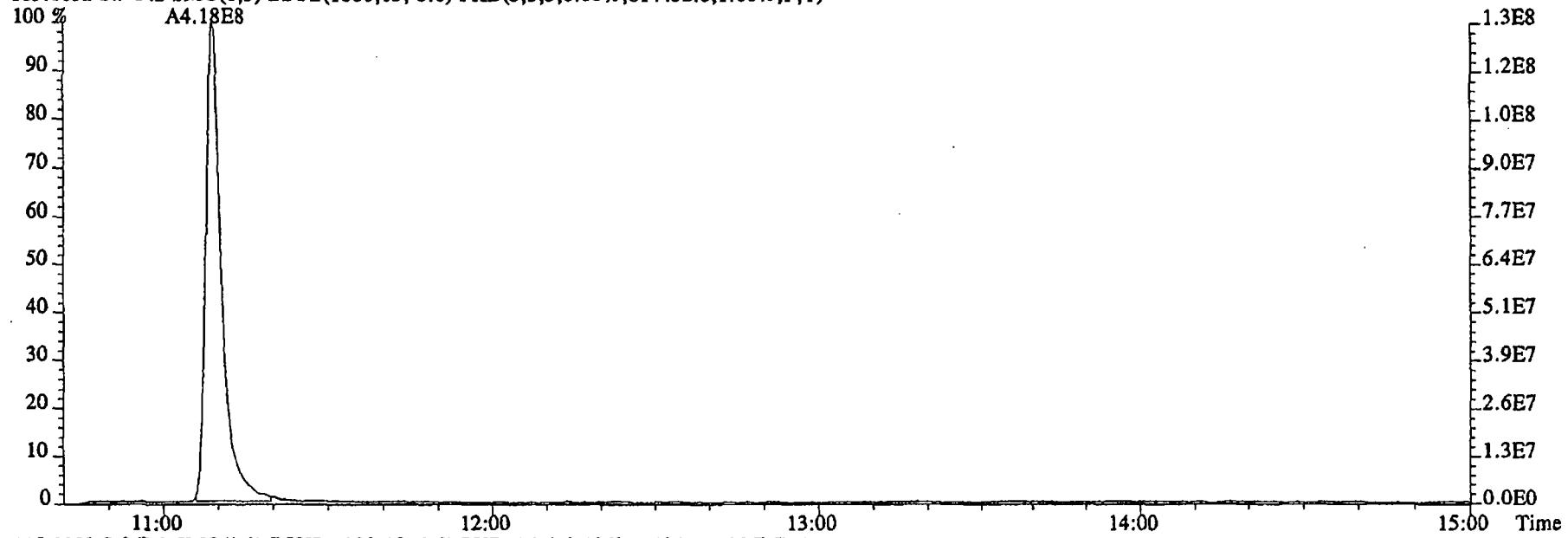
79.0253 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6288.0,1.00%,F,T)



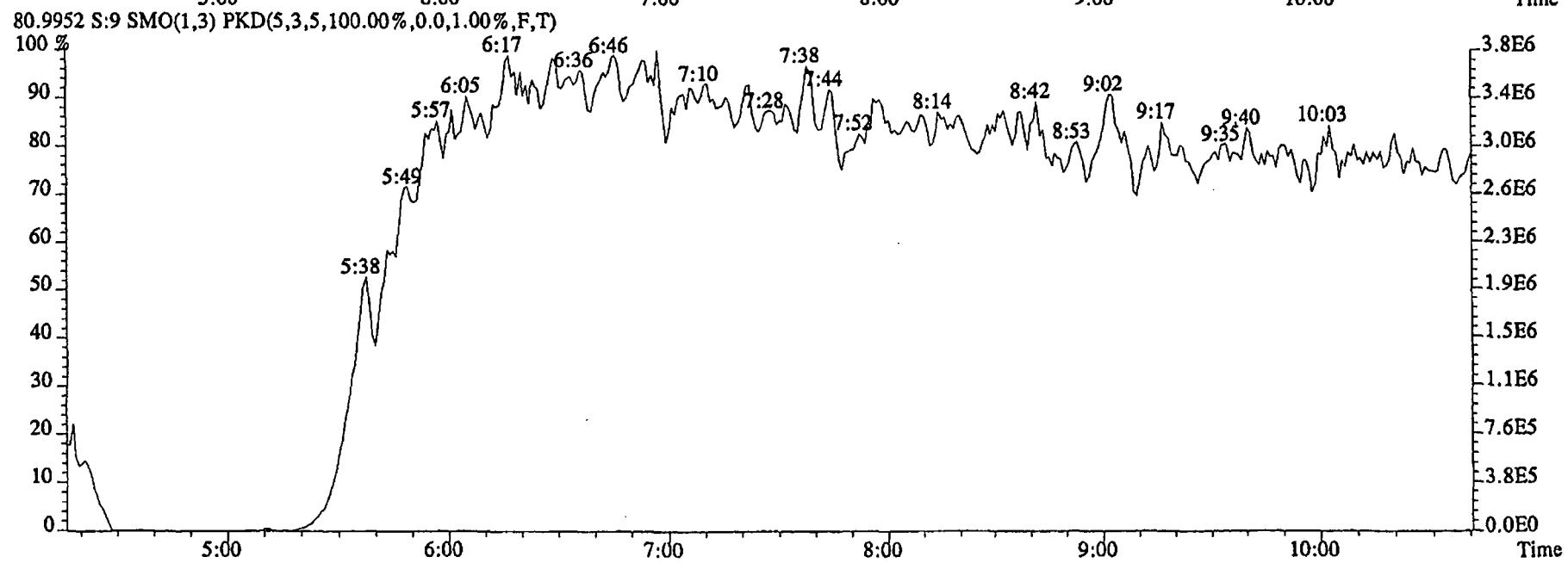
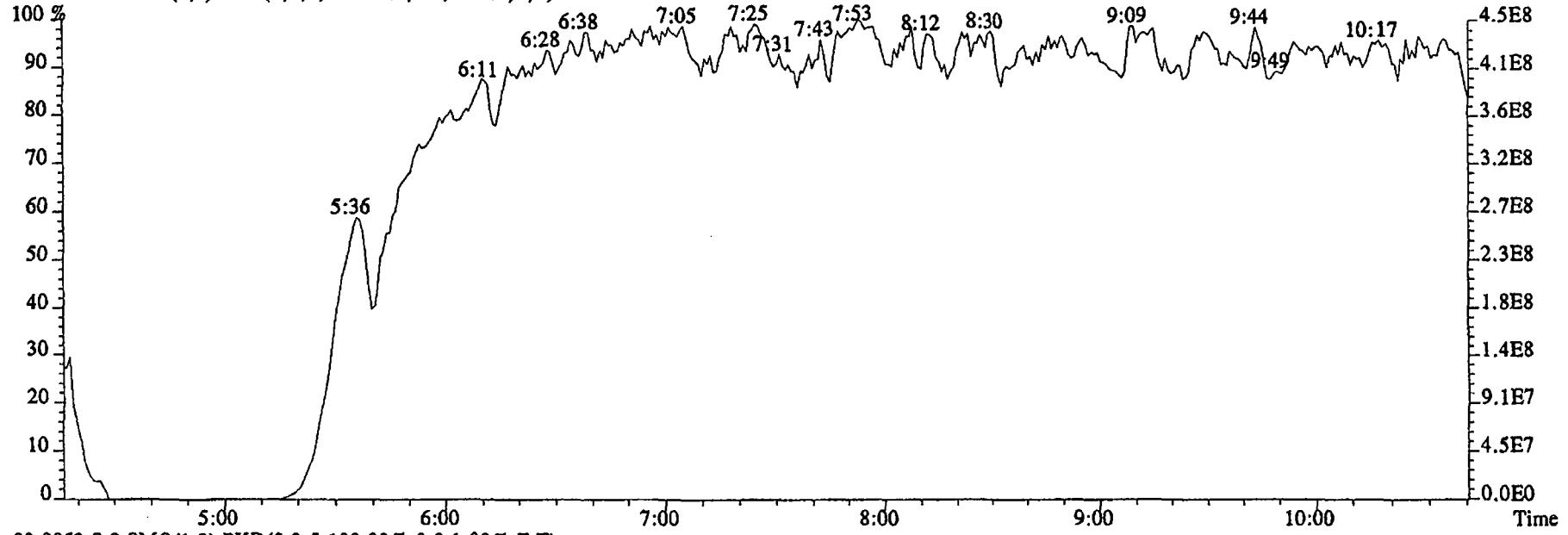
File:29DE045SP #1-474 Acq:29-DEC-2004 16:14:36 GC EI+ Voltage SIR 70SE  
Sample#9 Text:G1NWF-1-AAB :G4L080479-1MBRX Exp:NDMAVOA  
74.0480 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41688.0,1.00%,F,T)



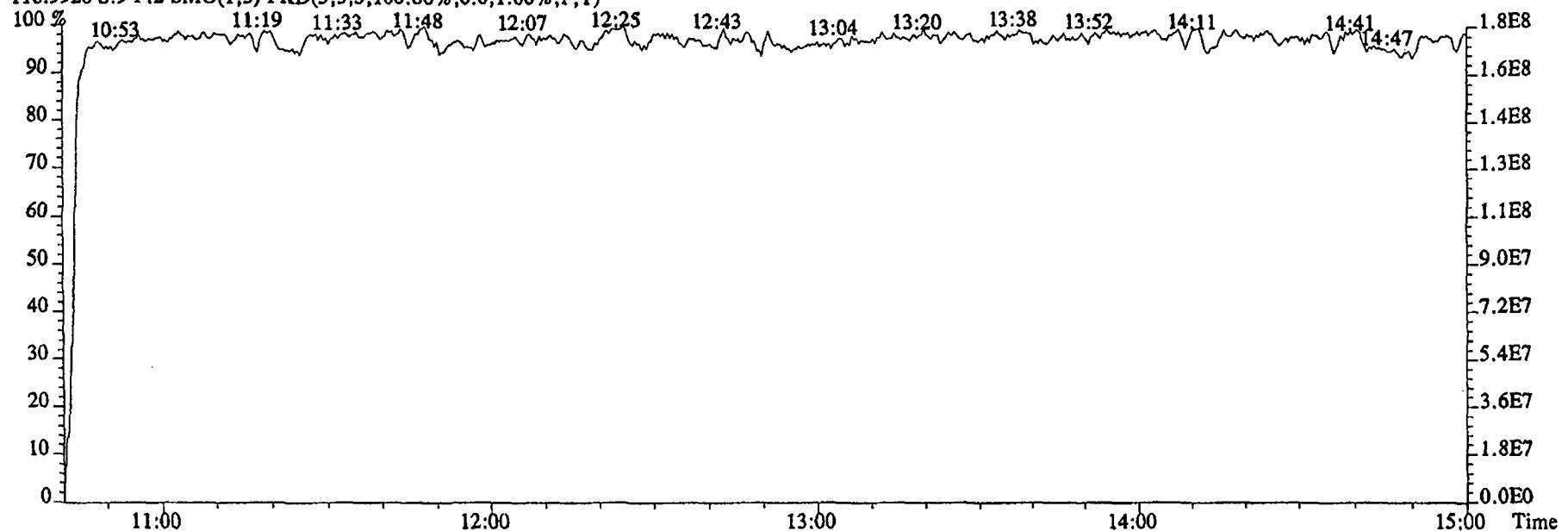
File:29DE045SP #1-602 Acq:29-DEC-2004 16:14:36 GC EI+ Voltage SIR 70SE  
Sample#9 Text:G1NWF-1-AAB :G4L080479-1MBRX Exp:NDMAVOA  
113.0032 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,614452.0,1.00%,F,T)



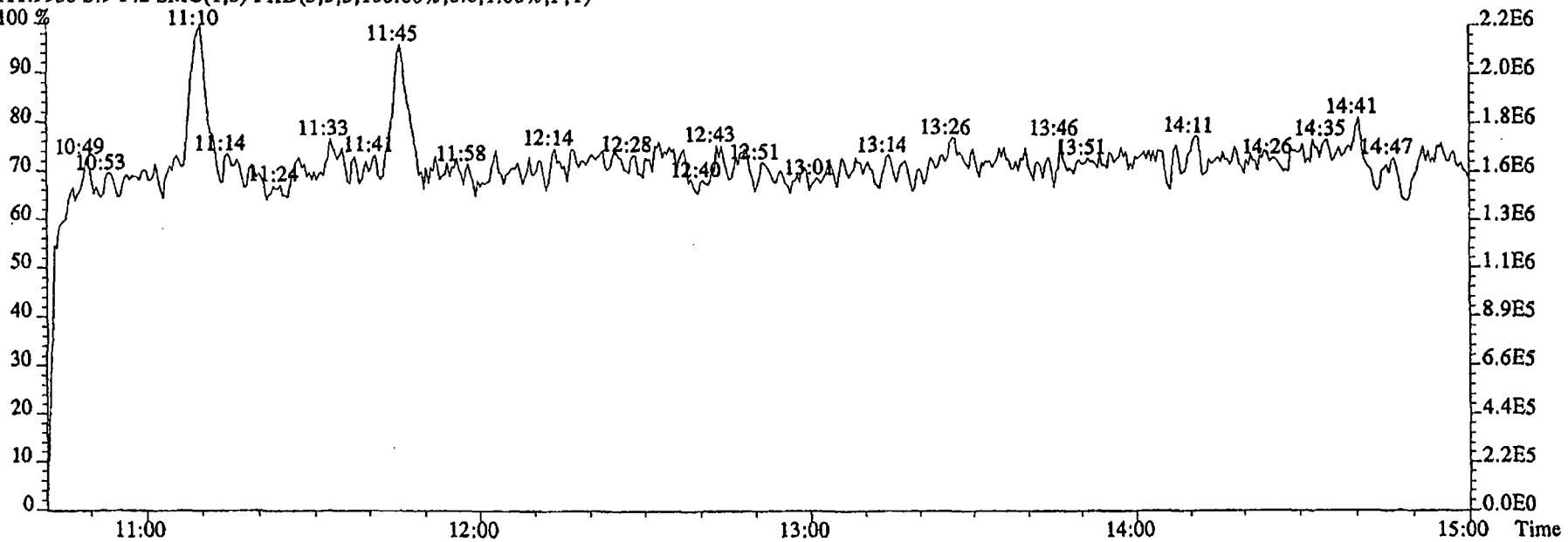
File:29DE045SP #1-474 Acq:29-DEC-2004 16:14:36 GC EI+ Voltage SIR 70SE  
Sample#9 Text:G1NWF-1-AAB :G4L080479-1MBRX Exp:NDMAVOA  
68.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-602 Acq:29-DEC-2004 16:14:36 GC EI+ Voltage SIR 70SE  
Sample#9 Text:G1NWF-1-AAB :G4L080479-1MBRX Exp:NDMAVOA  
118.9920 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

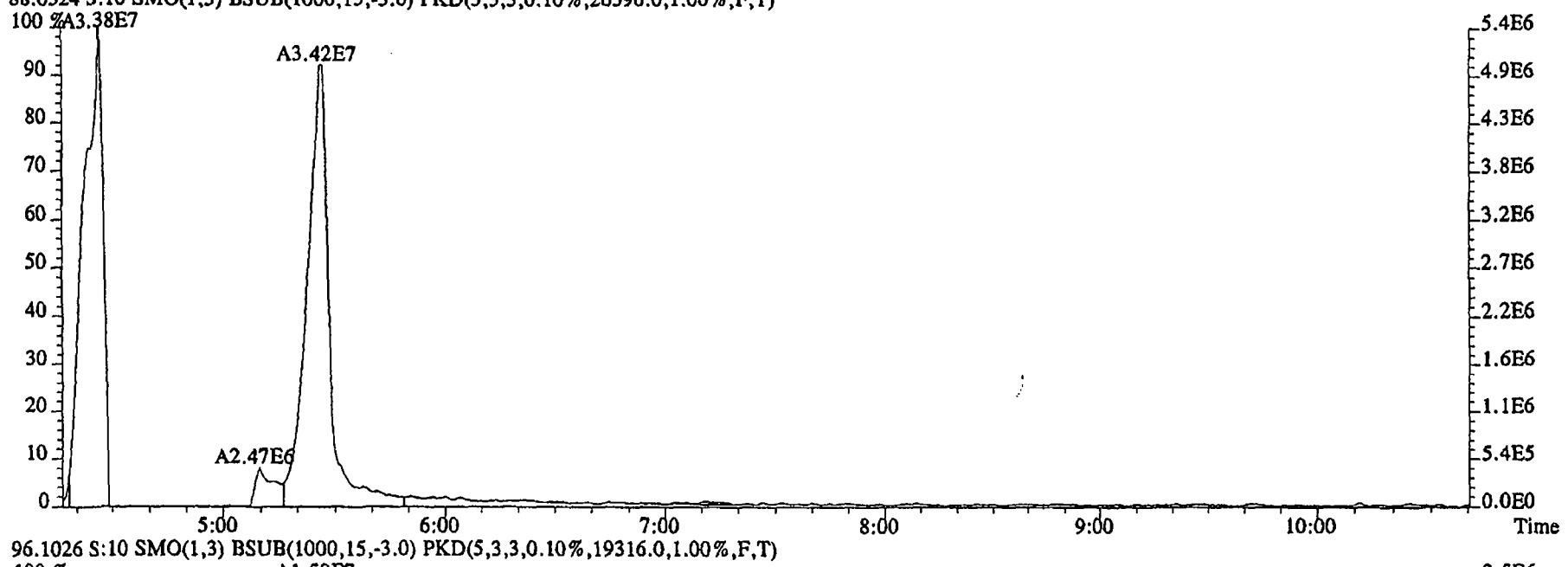


Run text: G1NWF-1-ACC      Sample text: G1NWF-1-ACC :G4L080479-1LCSRX  
 Run #9    Filename: 29DE045SP    S: 10    I: 1    Results: 29DE045SP1625  
 Acquired: 29-DEC-04    16:35:02    Processed: 29-DEC-04    21:42:52  
 Run: 29DE045SP    Analyte: 1625    Cal: 16251229045SP  
 Factor 1: 1.000    Factor 2: 1.000    Sample size: 1.000    L

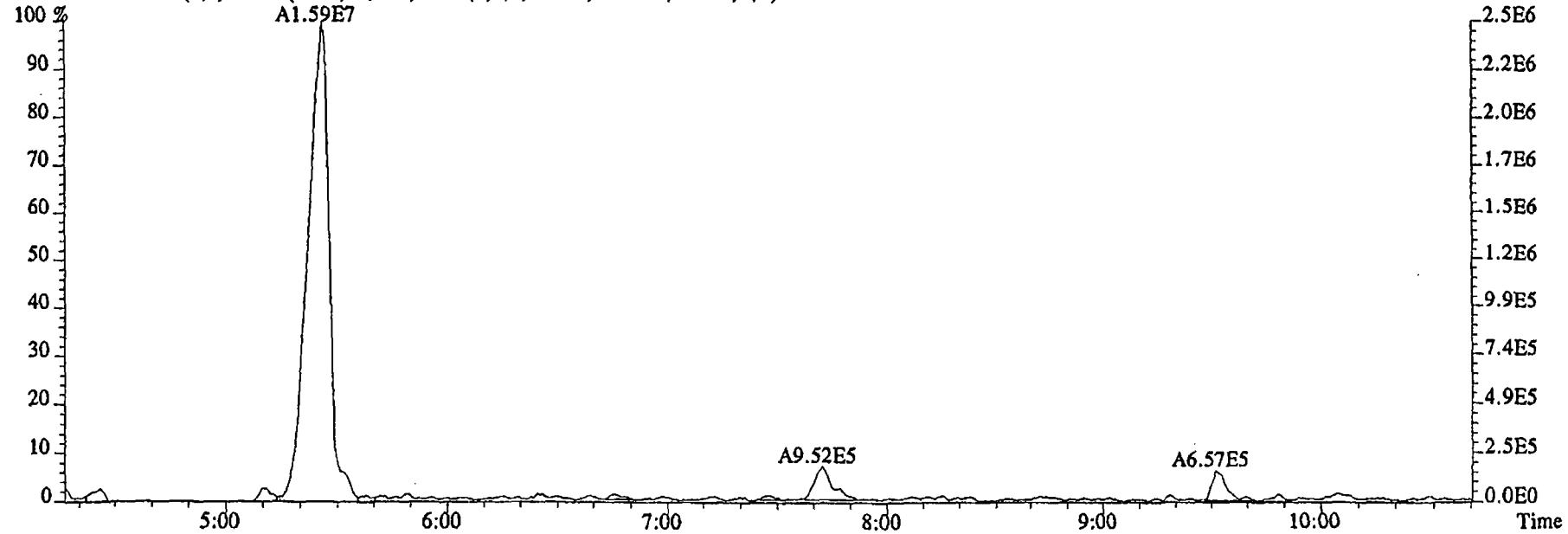
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	81943200		11:08	-	441.03	-	-	n
D8-1,4-Dioxane	260725		5:10	1.11	0.57	0.40	0.1	n
1,4-Dioxane	2467180		5:10	1.89	5007.69	648.53	-	n
D5-123-TriChloroPropane	112154000		10:05	2.68	101.96	0.03	102.0	n
1,2,3-TriChloroPropane	45763900		10:09	0.44	92.95	0.26	-	n
1,2,3-TriChloroPropane	151106000		10:09	-	226.71	-	-	n
D6-NDMA	21374400		10:16	1.68	31.01	0.01	31.0	n
NDMA	34795600		10:15	1.37	119.02	/ 1.79	-	n
2-Chloropyridine	252550000		11:08	-	429.47	-	-	n

12/24/04  
JL

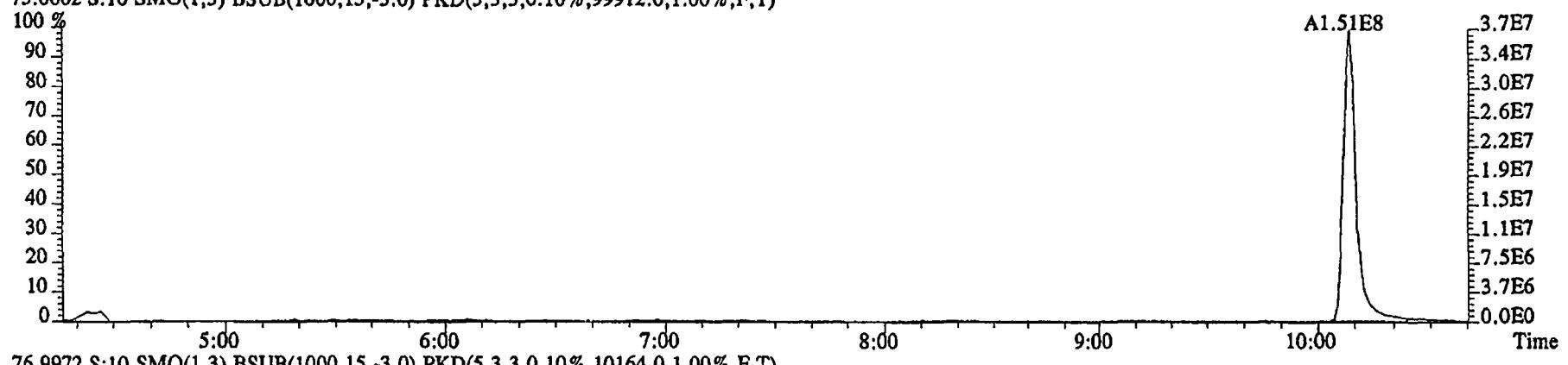
File:29DE045SP #1-474 Acq:29-DEC-2004 16:35:02 GC EI+ Voltage SIR 70SE  
Sample#10 Text:G1NWF-1-ACC :G4L080479-1LCSRX Exp:NDMAVOA  
88.0524 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26596.0,1.00%,F,T)  
100 %A3.38E7



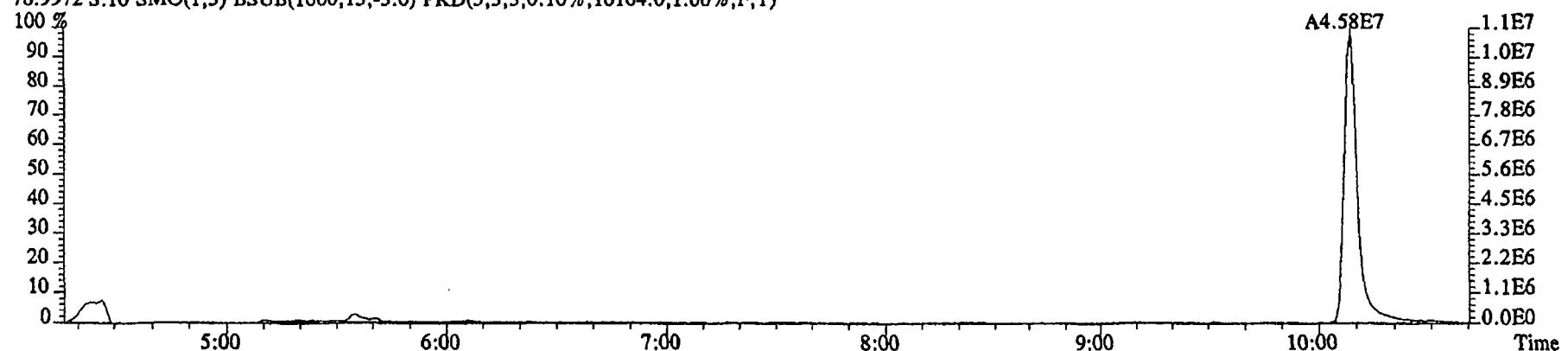
96.1026 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19316.0,1.00%,F,T)



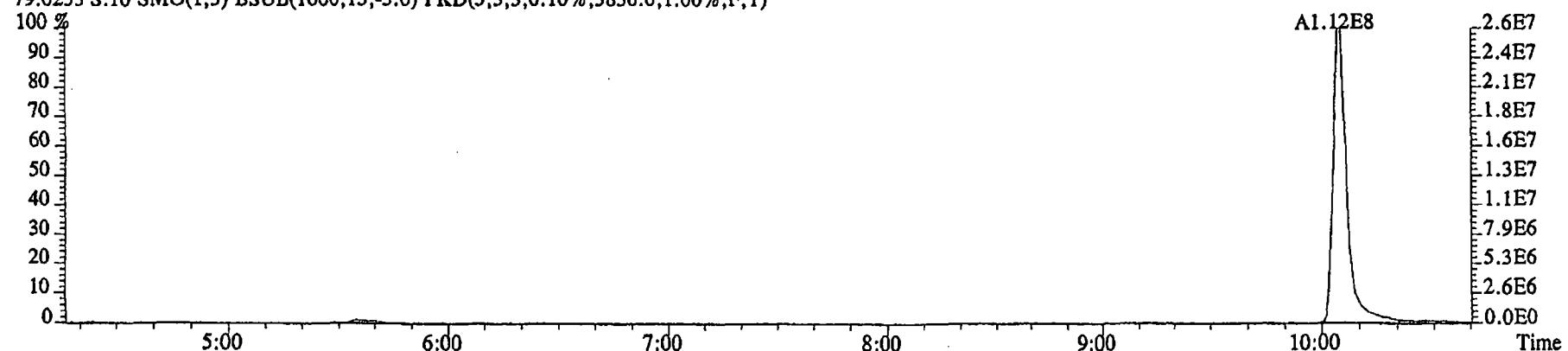
File:29DE045SP #1-474 Acq:29-DEC-2004 16:35:02 GC EI+ Voltage SIR 70SE  
Sample#10 Text:G1NWF-1-ACC :G4L080479-1LCSRX Exp:NDMAVOA  
75.0002 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,99912.0,1.00%,F,T)



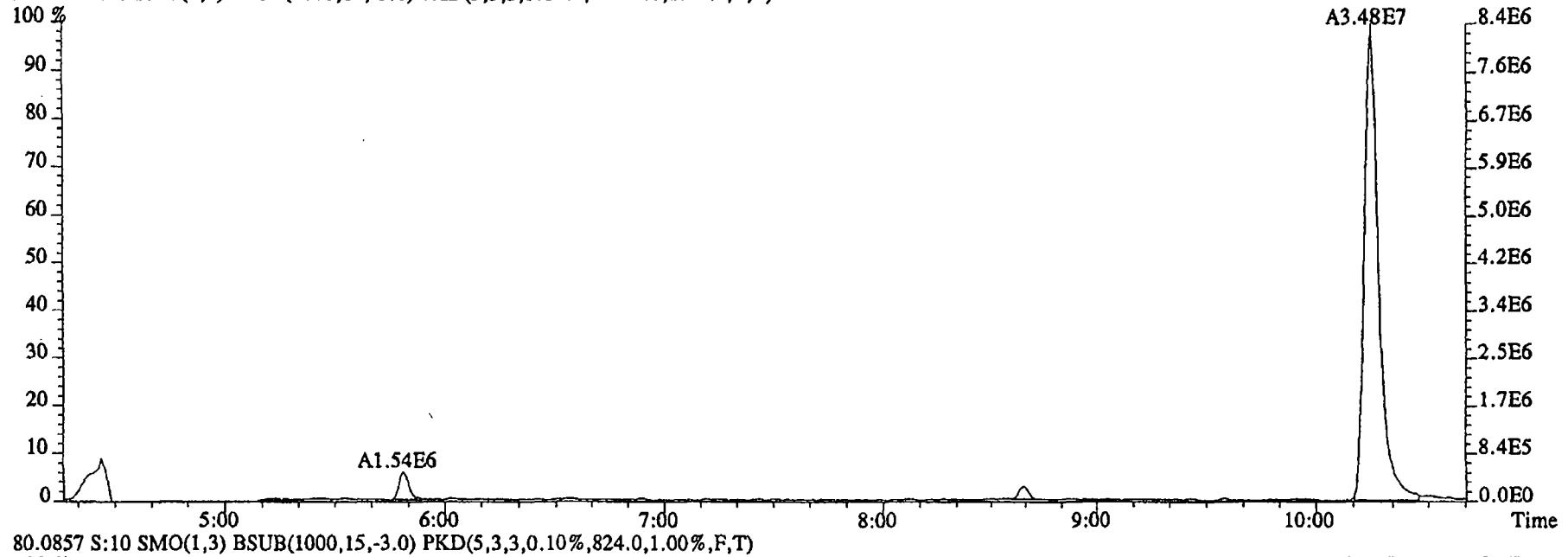
76.9972 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10164.0,1.00%,F,T)



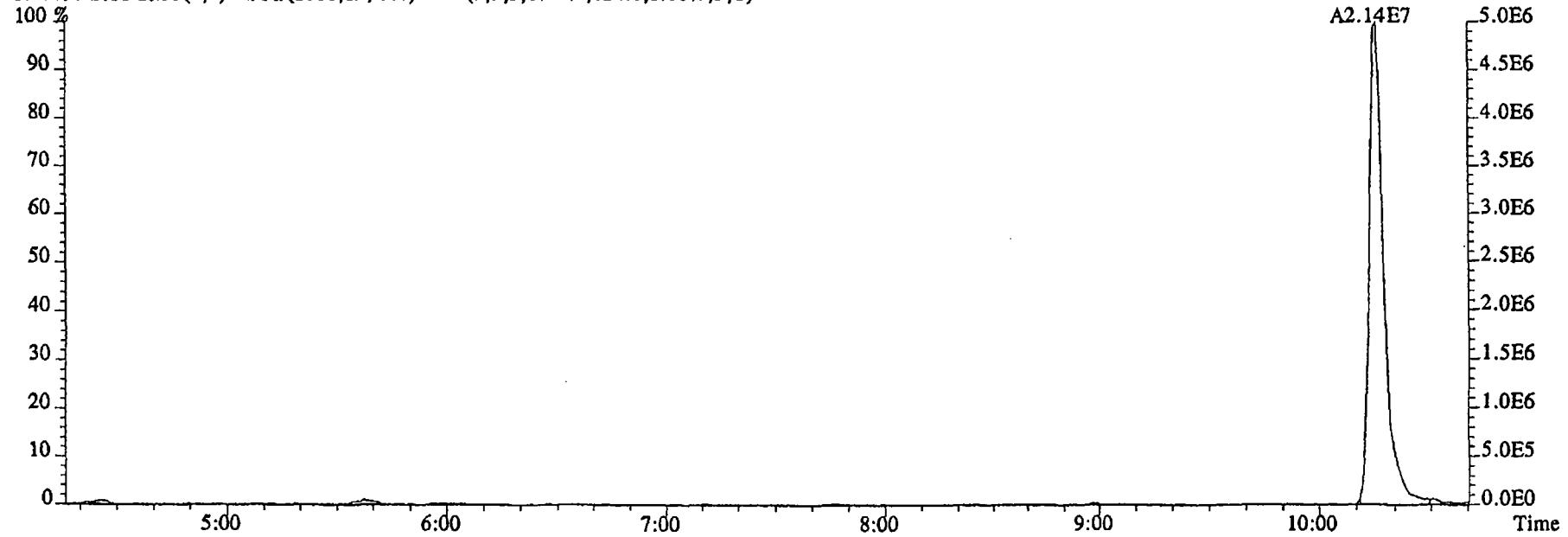
79.0253 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3836.0,1.00%,F,T)



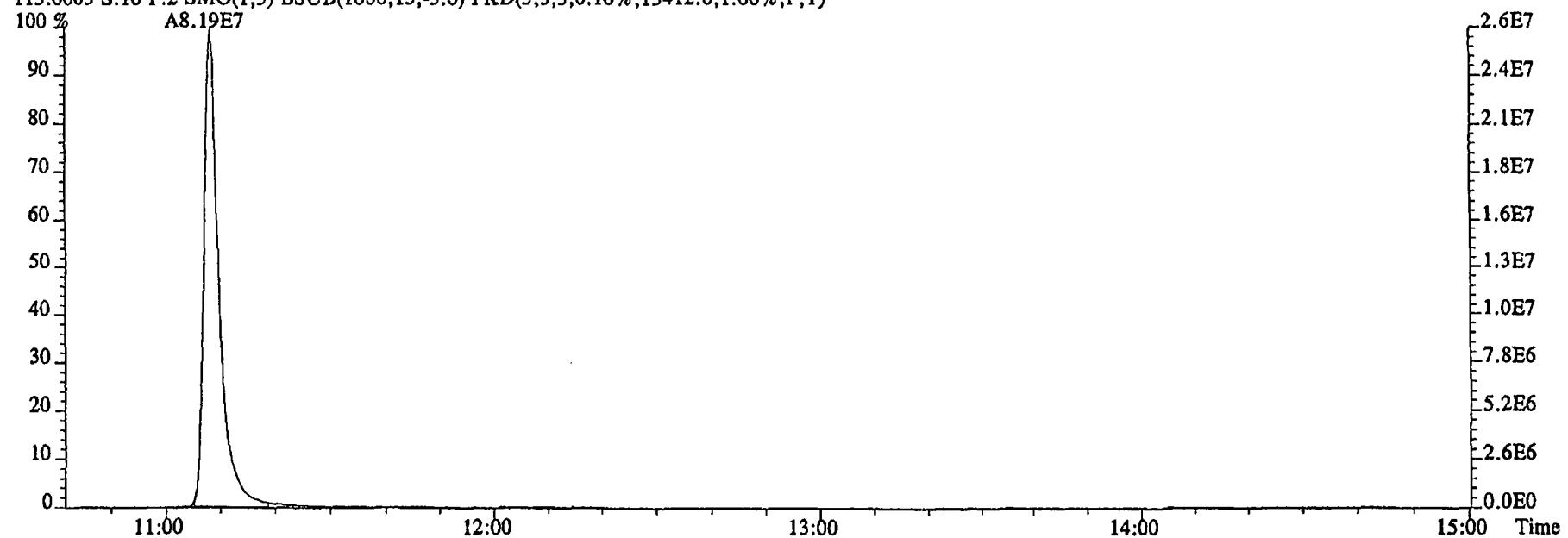
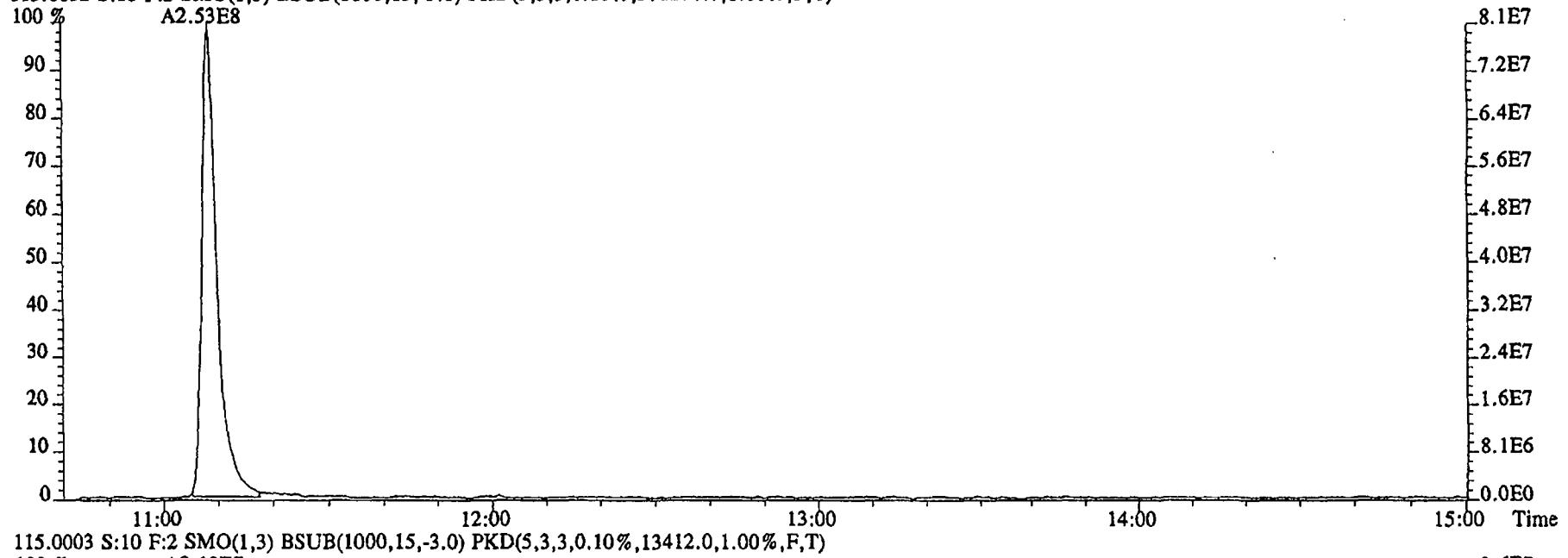
File:29DE045SP #1-474 Acq:29-DEC-2004 16:35:02 GC EI+ Voltage SIR 70SE  
Sample#10 Text:G1NWF-1-ACC :G4L080479-1LCSRX Exp:NDMAVOA  
74.0480 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40640.0,1.00%,F,T)



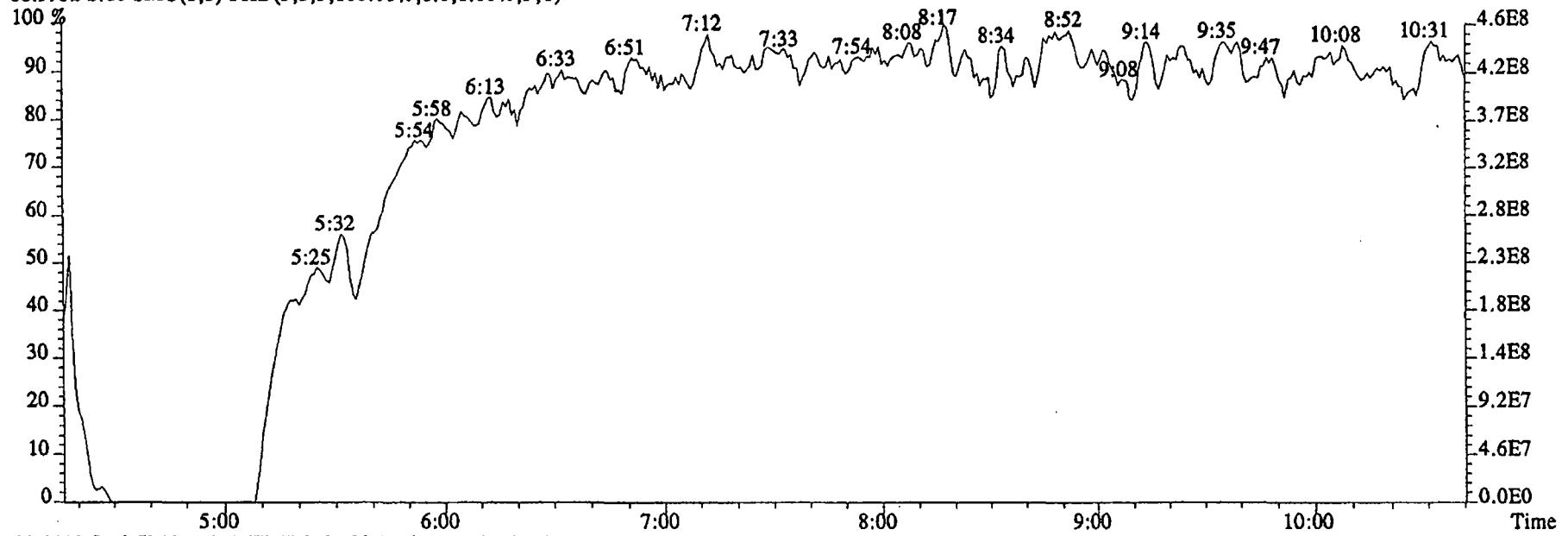
80.0857 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,824.0,1.00%,F,T)



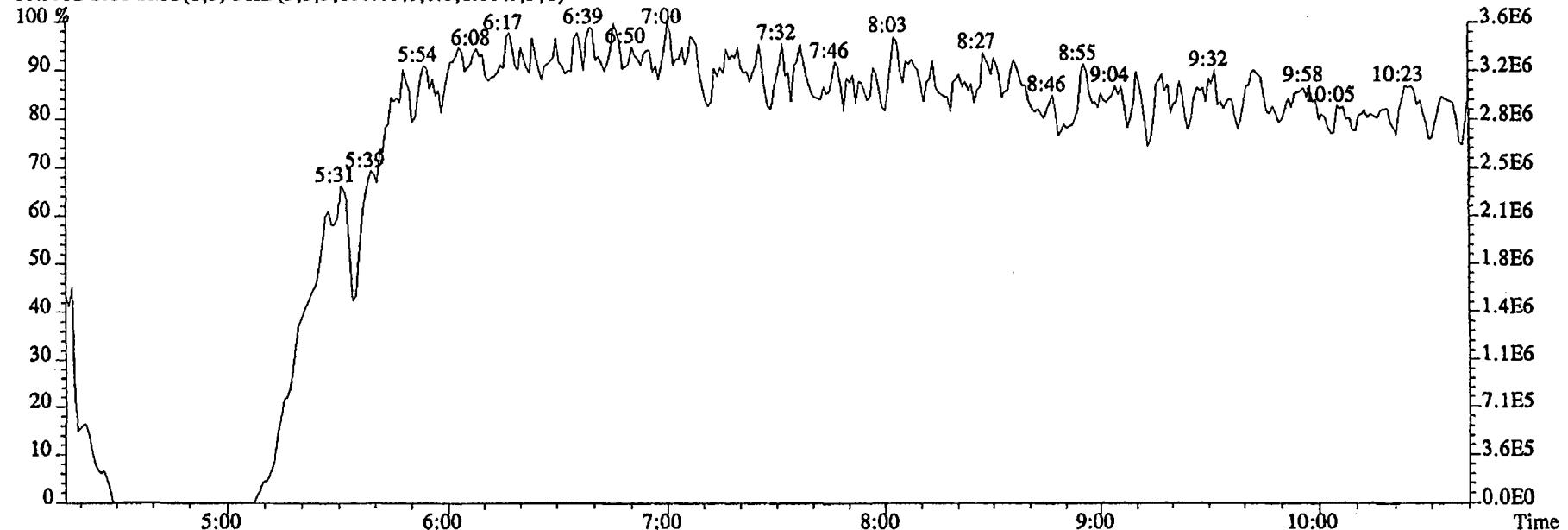
File:29DE045SP #1-603 Acq:29-DEC-2004 16:35:02 GC EI+ Voltage SIR 70SE  
Sample#10 Text:GINWF-1-ACC :G4L080479-1LCSRX Exp:NDMAVOA  
113.0032 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,571276.0,1.00%,F,T)



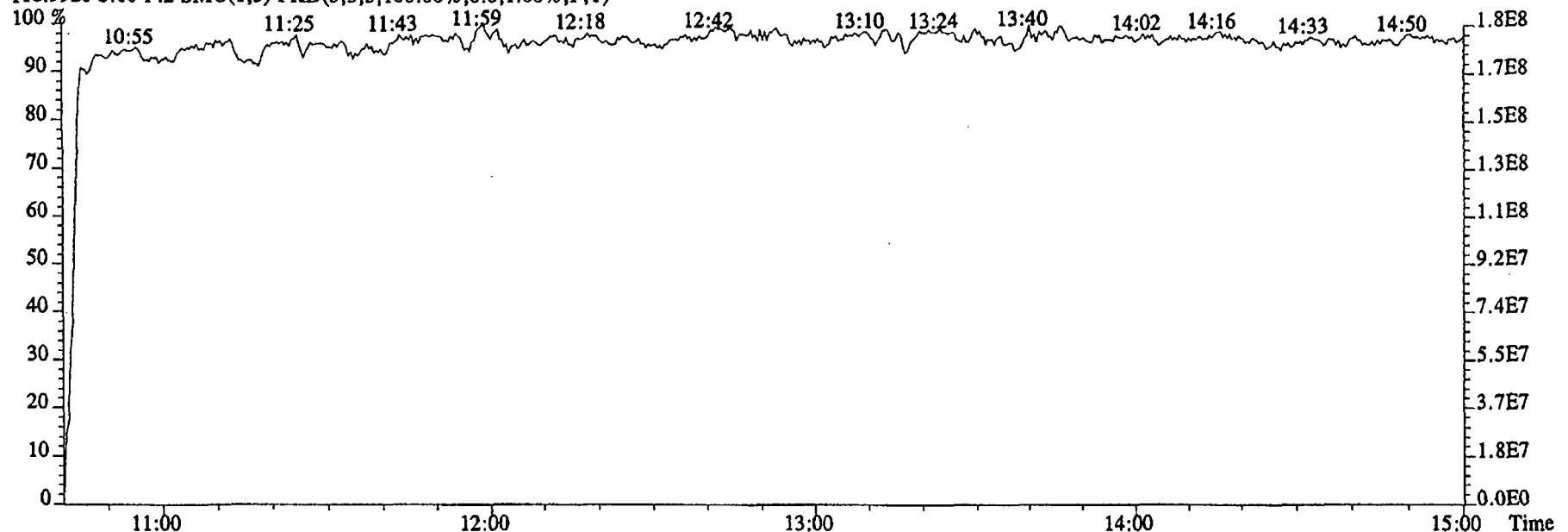
File:29DE045SP #1-474 Acq:29-DEC-2004 16:35:02 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:G1NWF-1-ACC :G4L080479-1LCSRX Exp:NDMAVOA  
 68.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



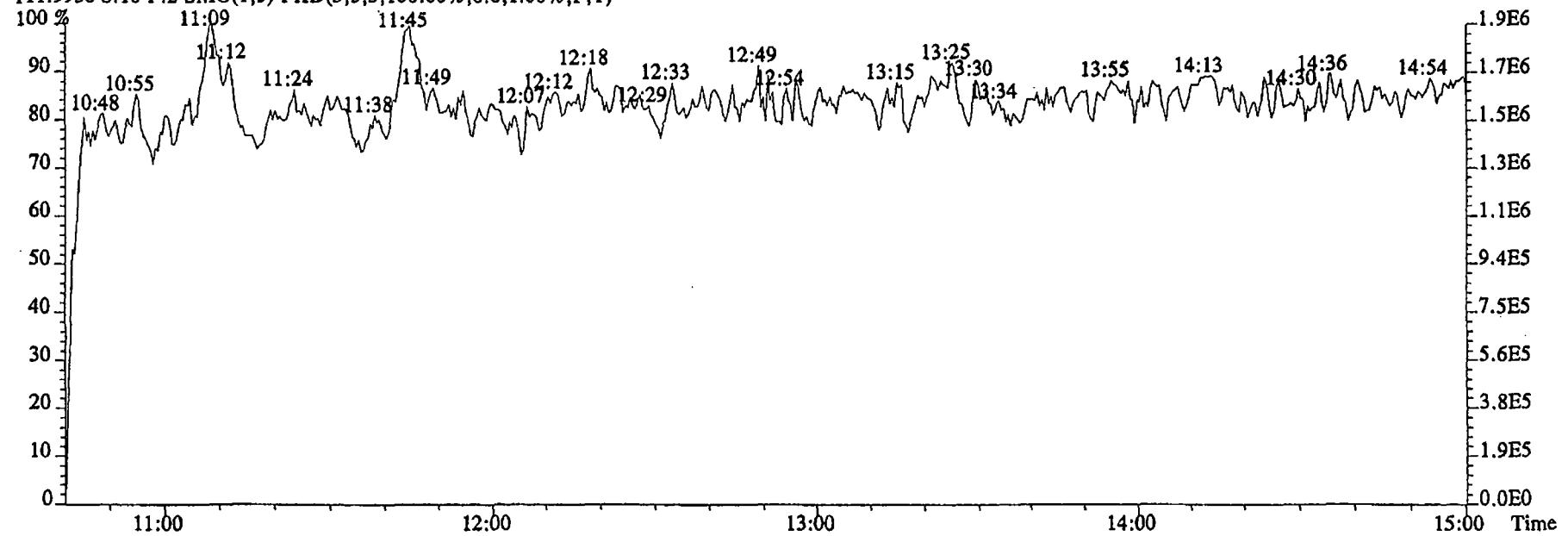
80.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-603 Acq:29-DEC-2004 16:35:02 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:G1NWF-1-ACC :G4L080479-1LCSRX Exp:NDMAVOA  
 118.9920 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

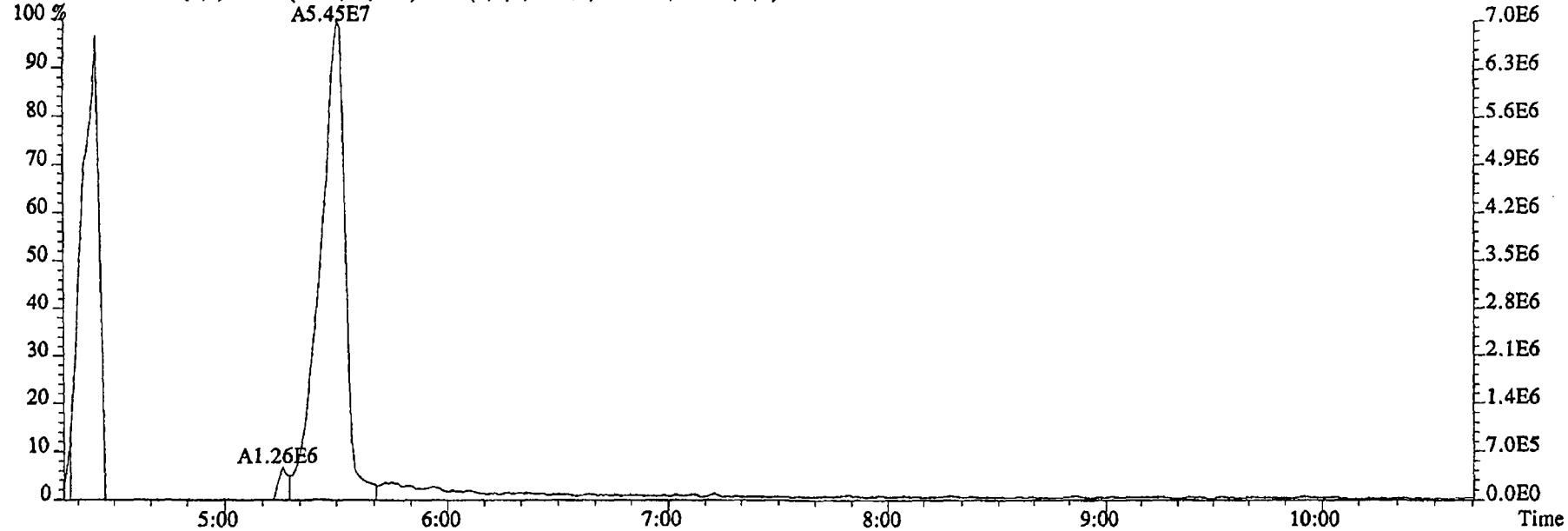


Run text: G0PC2-2-AC      Sample text: G0PC2-2-AC :G4L090480-1RX  
 Run #22 Filename: 29DE045SP    S: 23    I: 1    Results: 29DE045SP1625  
 Acquired: 29-DEC-04 20:59:53      Processed: 29-DEC-04 21:42:58  
 Run: 29DE045SP      Analyte: 1625      Cal: 16251229045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.973 L

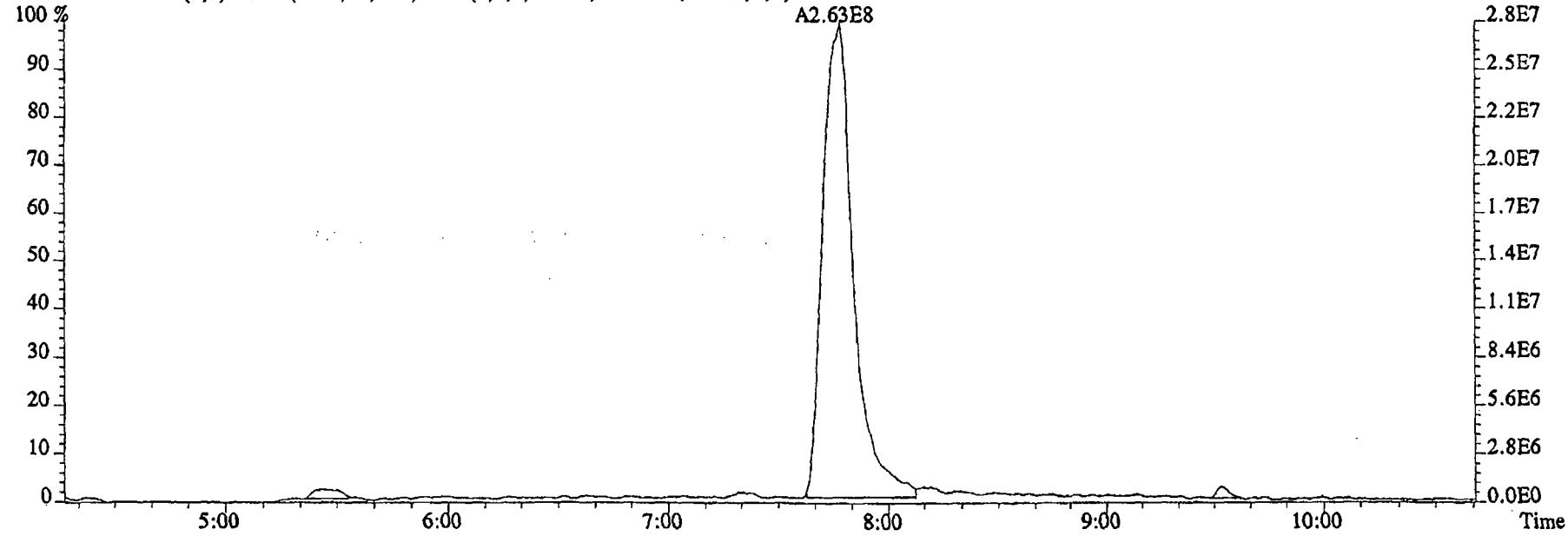
Name	Resp	RA	RT	RRF	Conc	<i>n</i>	EDL	Rec	M
2-Chloropyridine	88366000		11:09	-	488.79		-	-	n
D8-1,4-Dioxane	*		Not Fnd	1.11	*		6.32	*	n
1,4-Dioxane	1257910		5:15	1.89	*		*	-	n
D5-123-TriChloroPropane	132250000		10:05	2.68	114.58		0.06	111.5	n
1,2,3-TriChloroPropane	791677		10:09	0.44	1.40	NA	0.32	-	n
1,2,3-TriChloroPropane	2446170		10:09	-	3.77		-	-	n
D6-NDMA	25174400		10:16	1.68	34.81		0.01	33.9	n
NDMA	354454		10:16	1.37	1.06	12.0	2.16	0.28	-
2-Chloropyridine	272869000		11:09	-	476.89		-	-	n

*12-30-04  
sp*

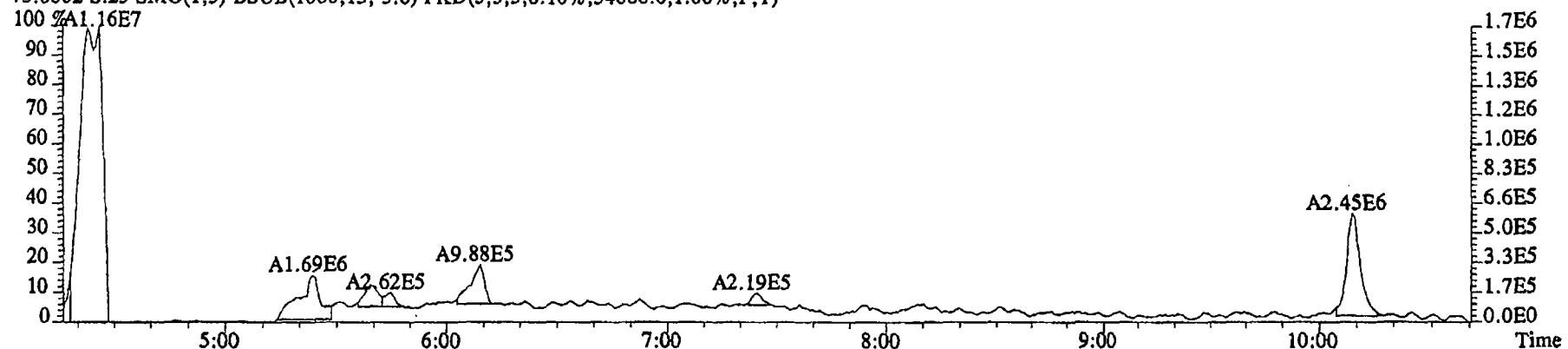
File:29DE045SP #1-474 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
88.0524 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,39996.0,1.00%,F,T)



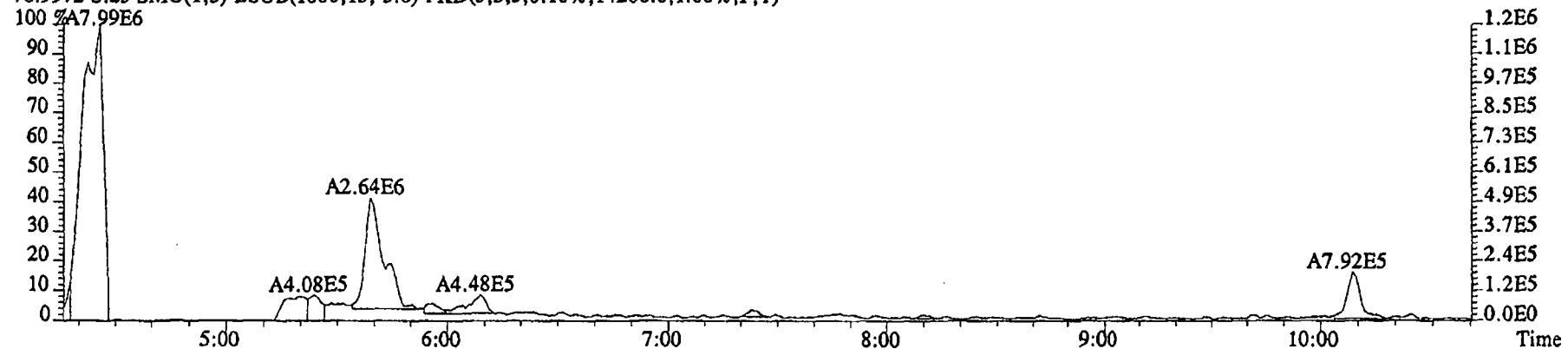
96.1026 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,304992.0,1.00%,F,T)



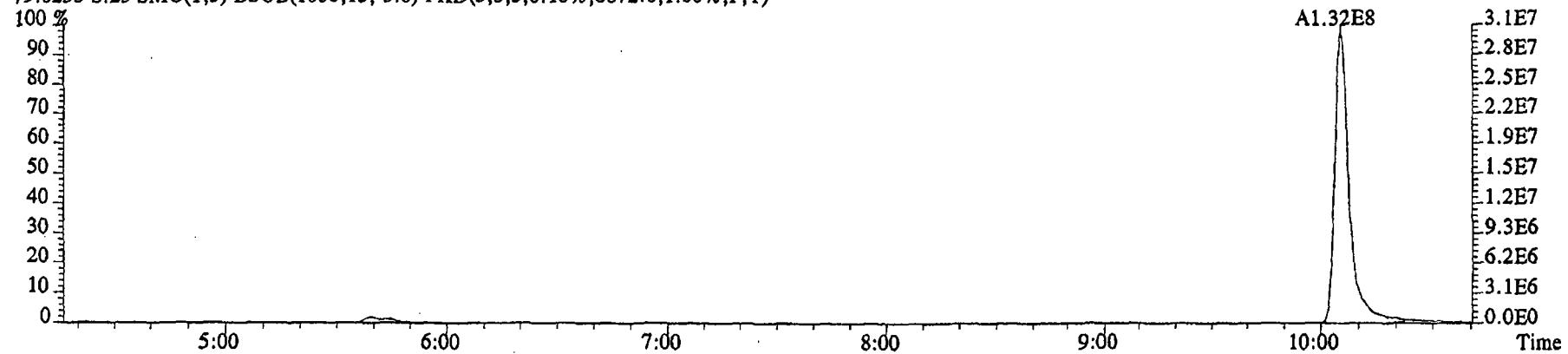
File:29DE045SP #1-474 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
 75.0002 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,54068.0,1.00%,F,T)



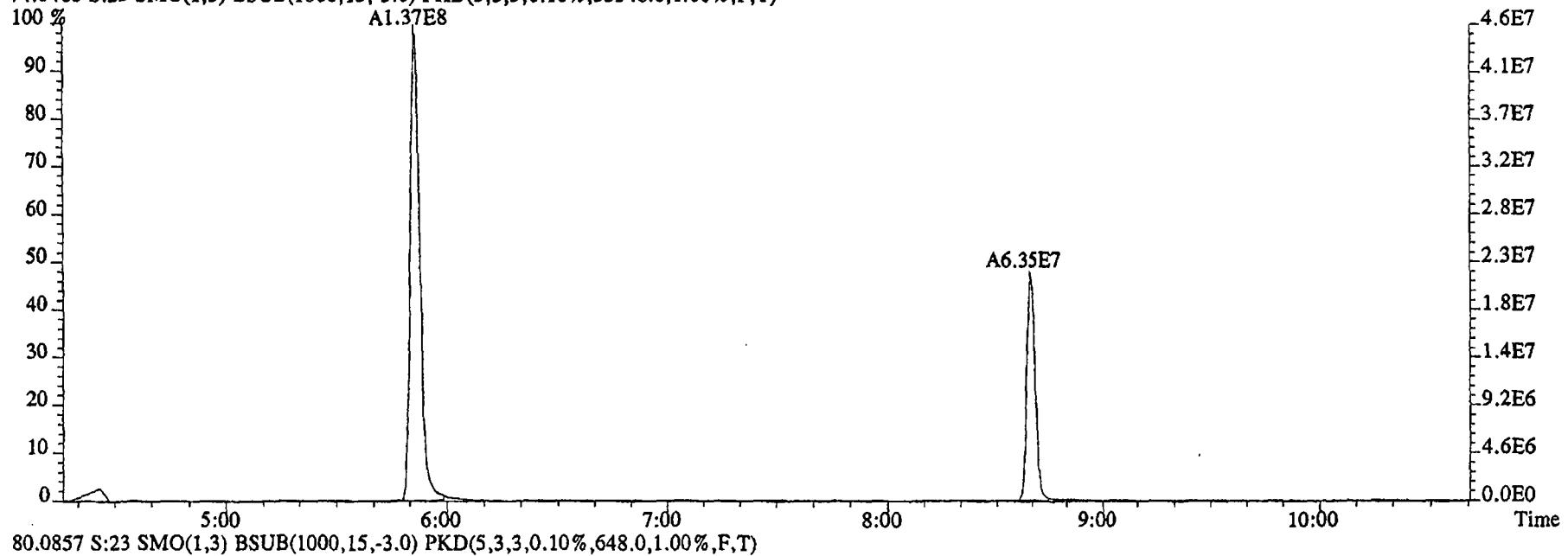
76.9972 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14268.0,1.00%,F,T)



79.0253 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6872.0,1.00%,F,T)



File:29DE045SP #1-474 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
74.0480 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,53548.0,1.00%,F,T)



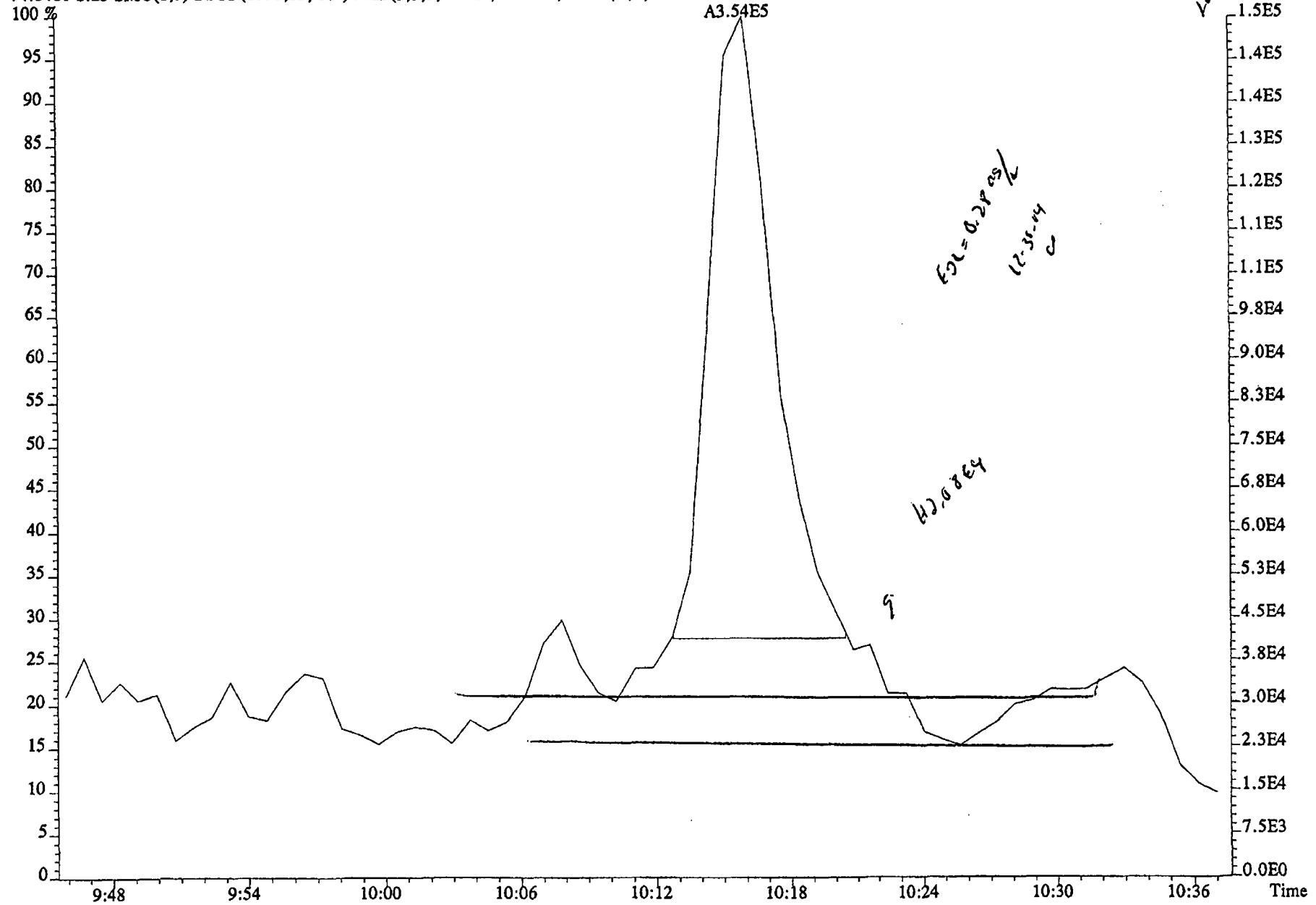
5:00 6:00 7:00 8:00 9:00 10:00

5:00 6:00 7:00 8:00 9:00 10:00

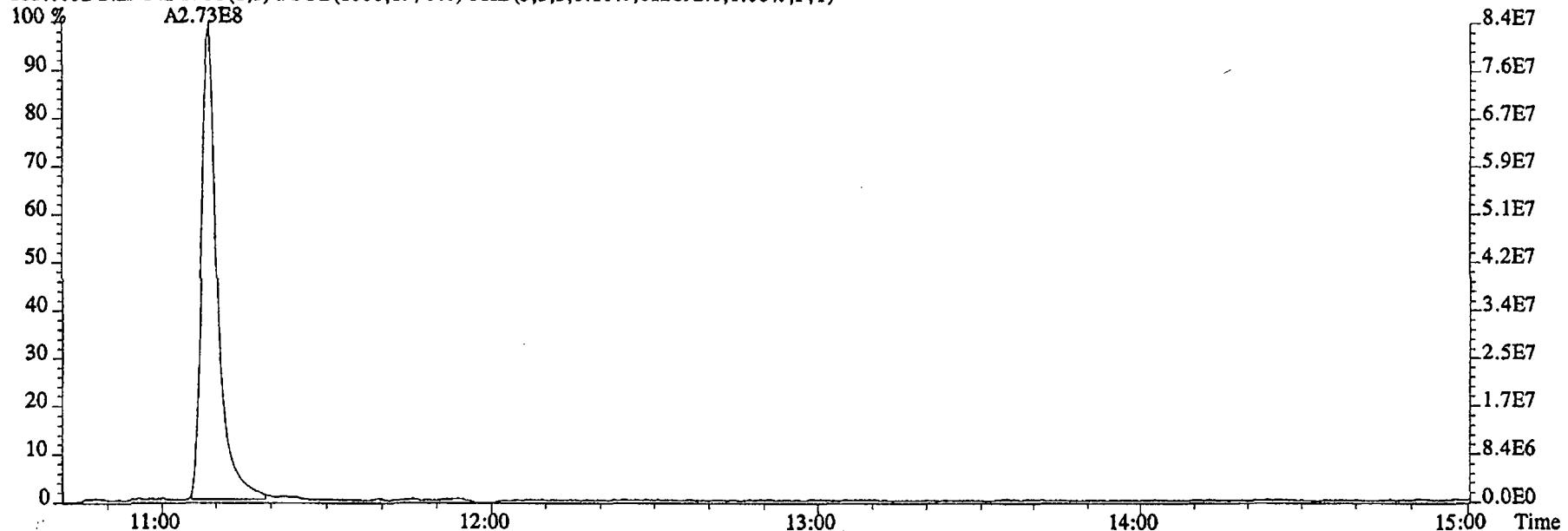
5:00 6:00 7:00 8:00 9:00 10:00

5:00 6:00 7:00 8:00 9:00 10:00

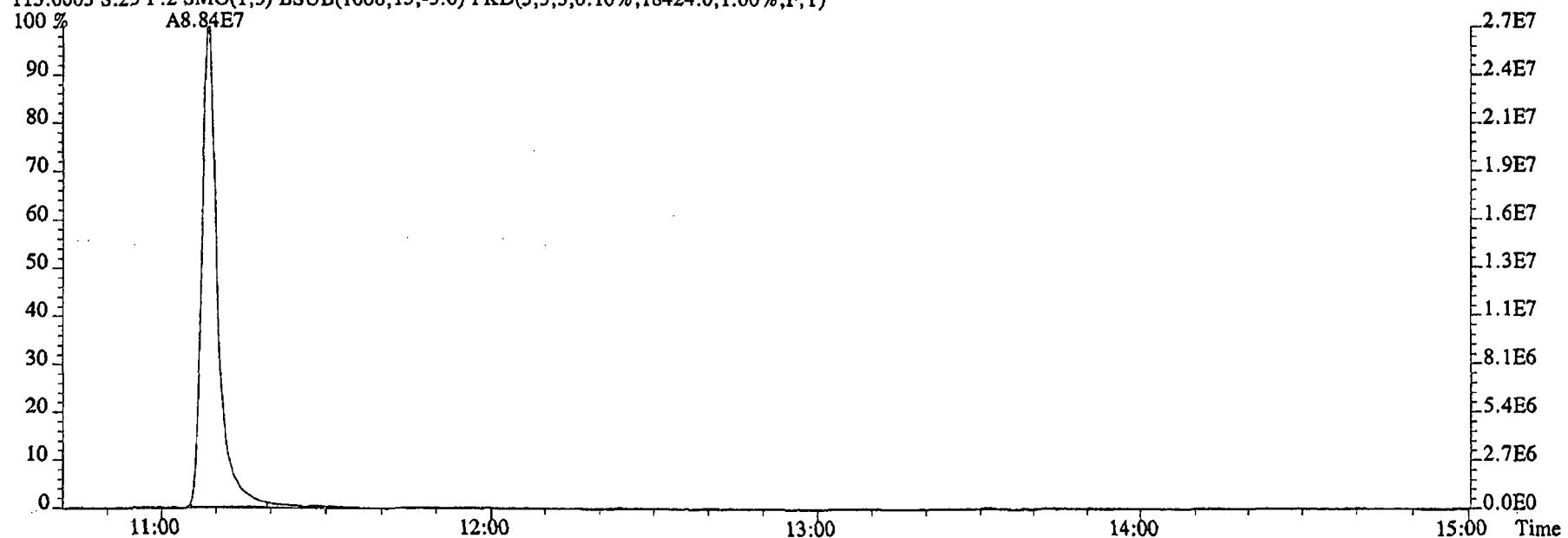
File:29DE045SP #1-474 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
74.0480 S:23 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,53548.0,1.00%,F,T)



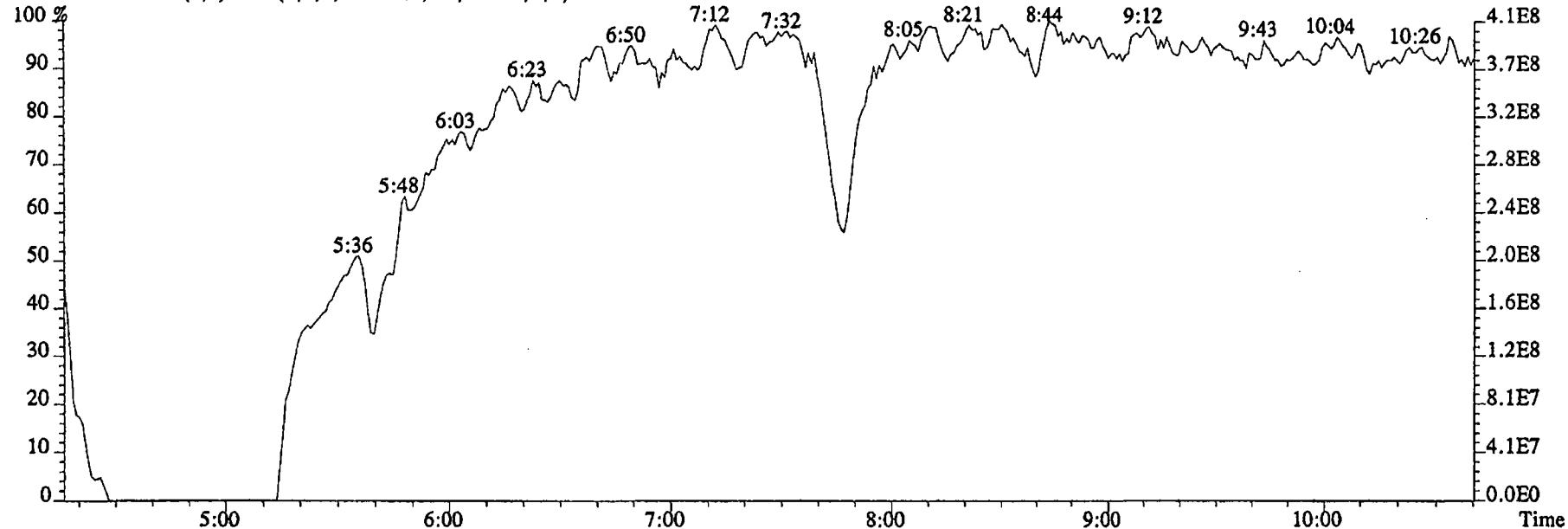
File:29DE045SP #1-603 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
113.0032 S:23 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,612892.0,1.00%,F,T)



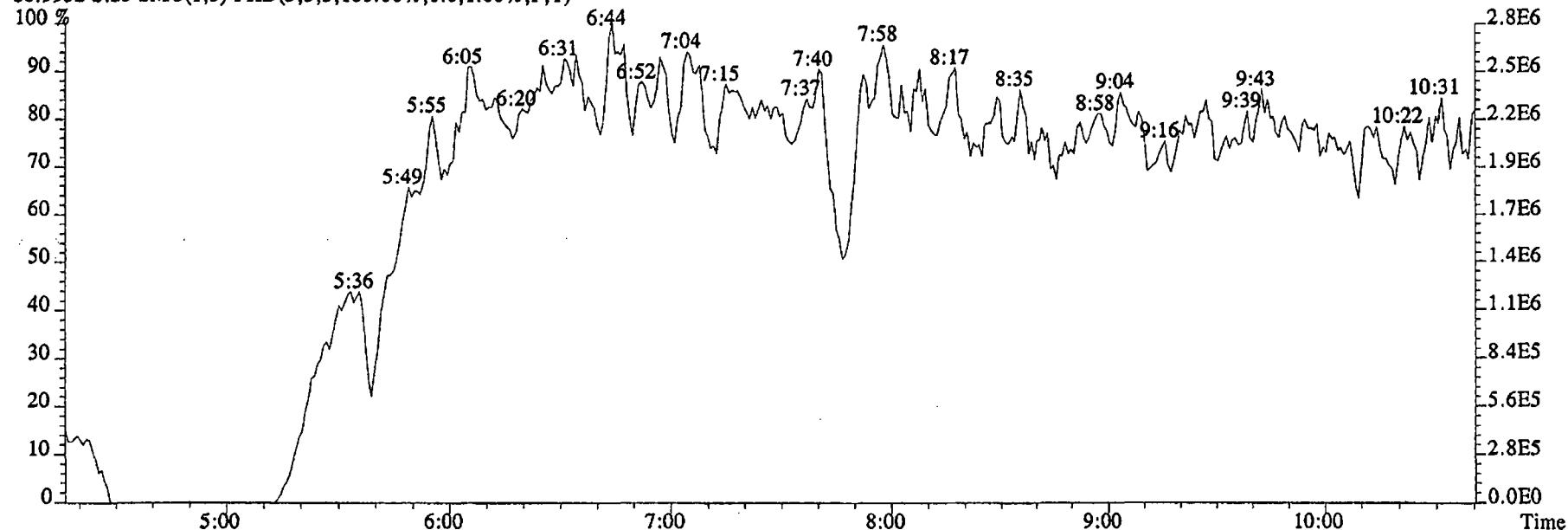
115.0003 S:23 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18424.0,1.00%,F,T)



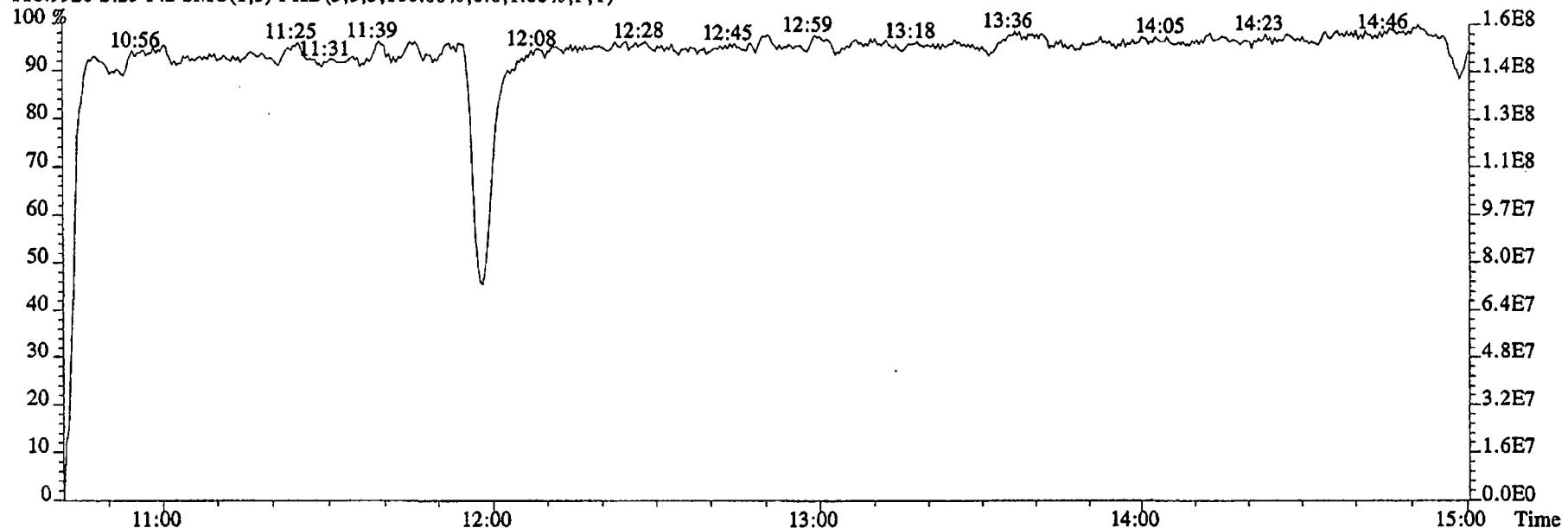
File:29DE045SP #1-474 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
 68.9952 S:23 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



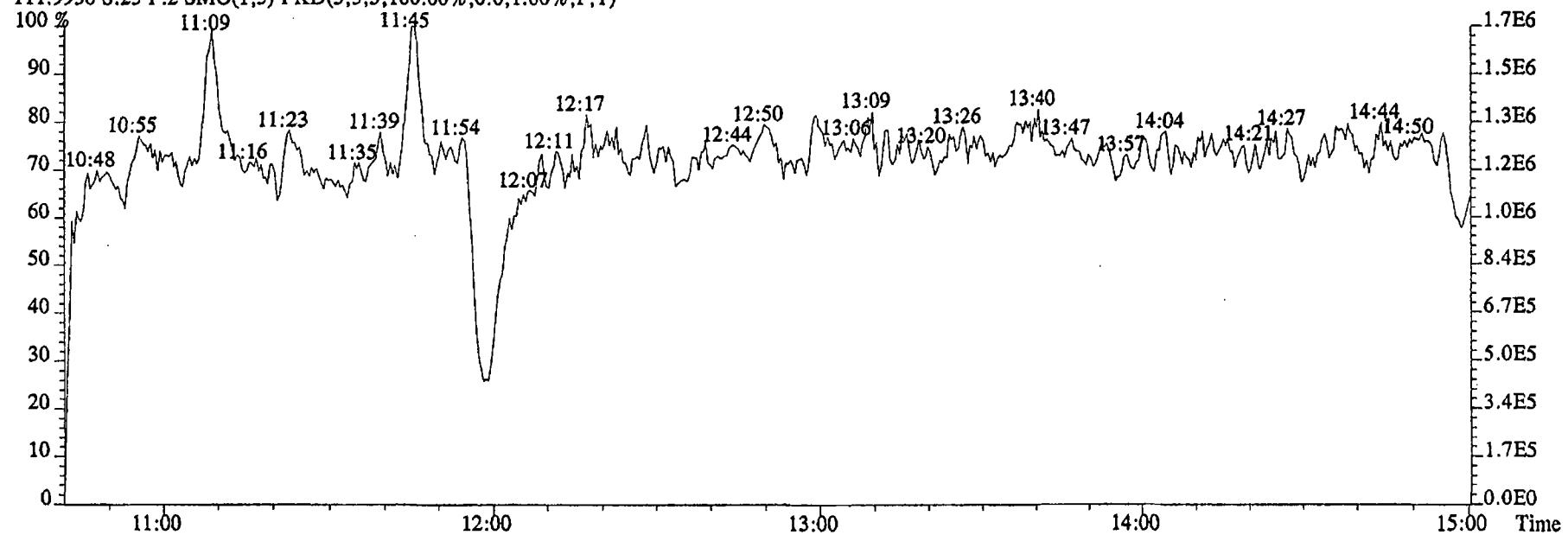
80.9952 S:23 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-603 Acq:29-DEC-2004 20:59:53 GC EI+ Voltage SIR 70SE  
 Sample#23 Text:G0PC2-2-AC :G4L090480-1RX Exp:NDMAVOA  
 118.9920 S:23 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:23 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

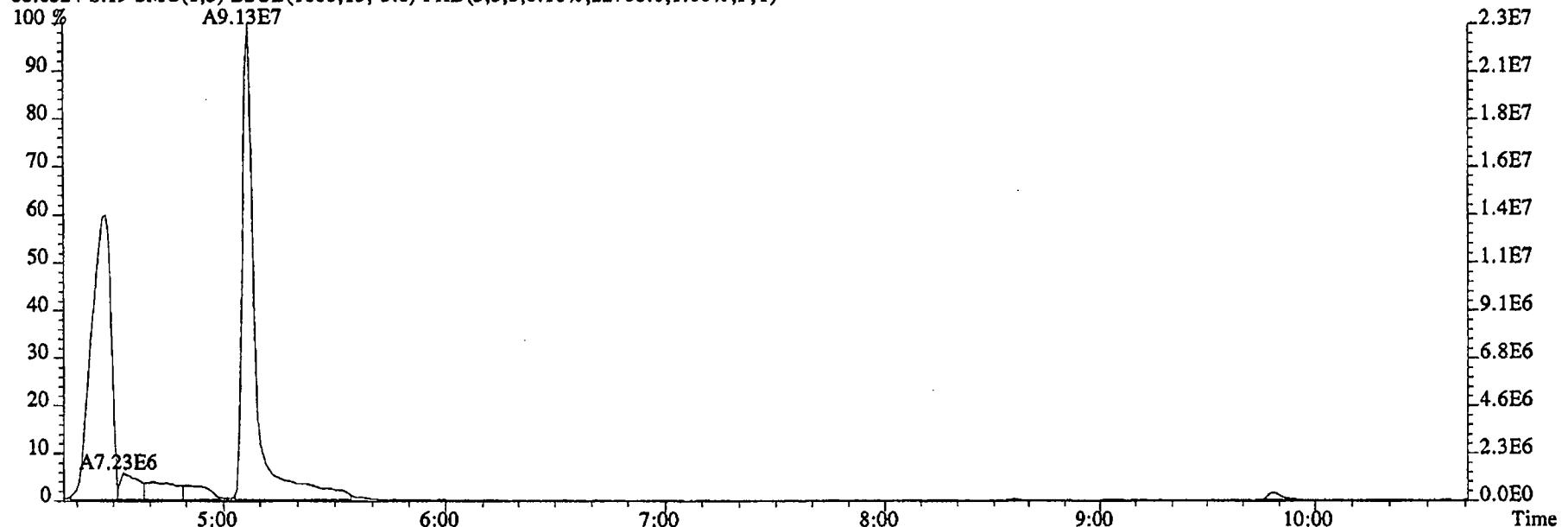


Run text: G0PC4-2-AC      Sample text: G0PC4-2-AC :G4L090480-2RX  
 Run #24 Filename: 22DE045SP    S: 19    I: 1    Results: 22DE045SP1625  
 Acquired: 23-DEC-04 02:04:10      Processed: 28-DEC-04 12:53:22  
 Run: CP      Analyte: 1625      Cal: 16251216045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.976 L

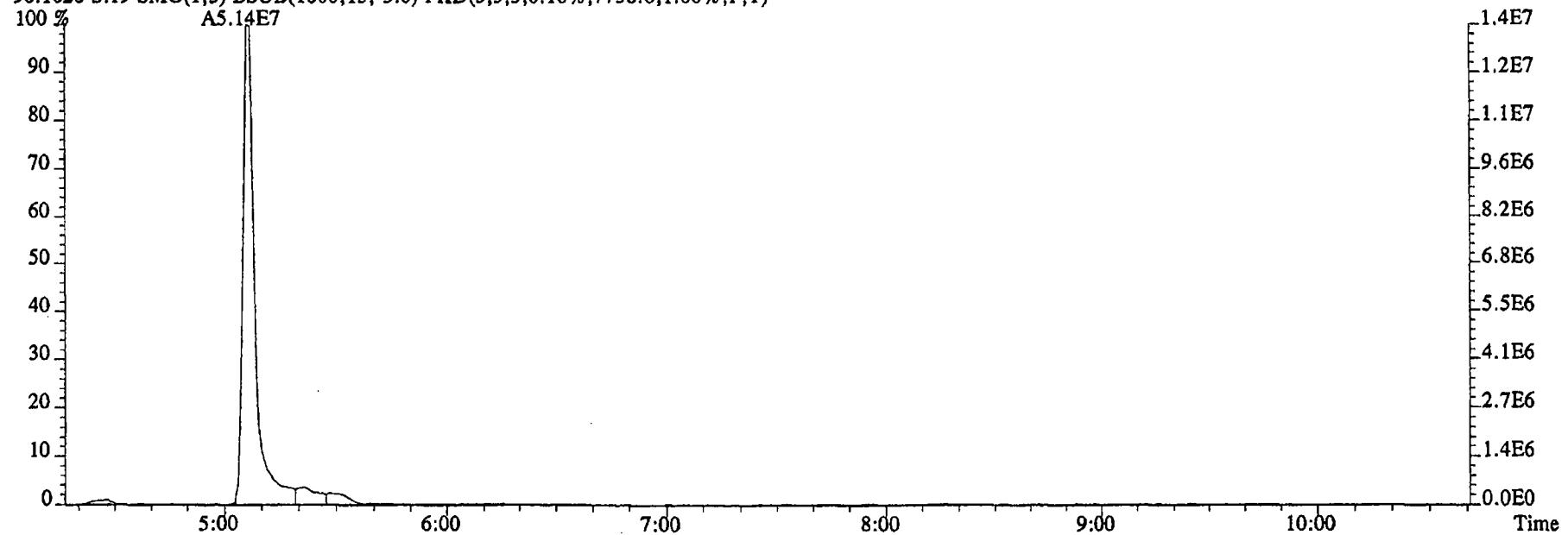
Name	Resp	RA	RT	RRF	Conc	LL	EDL	Rec	M
2-Chloropyridine	262423000		11:03	-	548.28		-	-	n
D8-1,4-Dioxane	51448800		5:06	0.66	61.30		0.09	6.0	n
1,4-Dioxane	91290300		5:07	1.05	1724.20		4.84	-	n
D5-123-TriChloroPropane	119917000		9:59	2.35	39.83		0.04	38.9	n
1,2,3-TriChloroPropane	*		NotFnd	0.48	*		0.50	-	n
1,2,3-TriChloroPropane	710417		10:02	-	0.45		-	-	n
D6-NDMA	21497400		10:10	1.48	11.33		0.02	11.1	n
NDMA	*		NotFnd	1.37	*	L2-a	3.66	L2-b	-
2-Chloropyridine	827301000		11:03	-	540.85		-	-	n

12.3 s/d  
C

File:22DE045SP #1-474 Acq:23-DEC-2004 02:04:10 GC EI+ Voltage SIR 70SE  
Sample#19 Text:G0PC4-2-AC :G4L090480-2RX Exp:NDMAVOA  
88.0524 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22700.0,1.00%,F,T)



96.1026 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7736.0,1.00%,F,T)

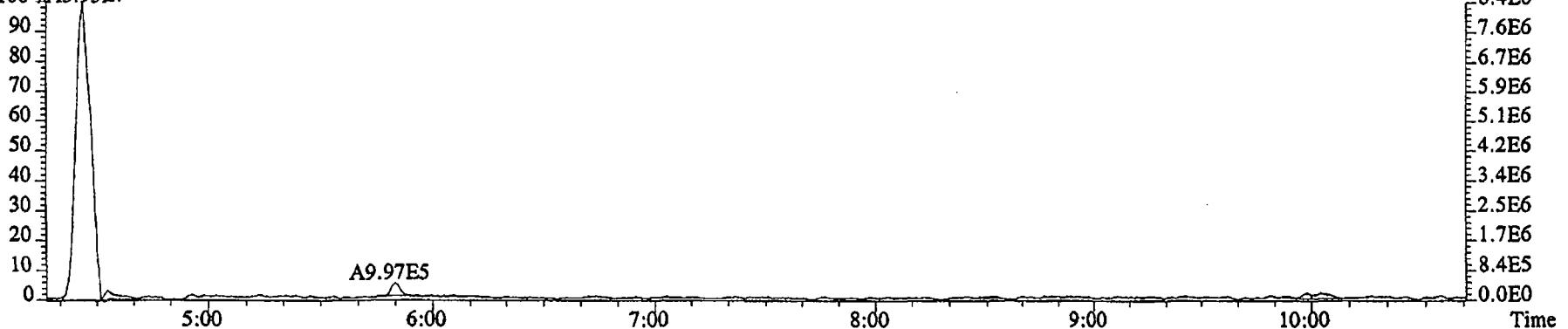


File:22DE045SP #1-474 Acq:23-DEC-2004 02:04:10 GC EI + Voltage SIR 70SE

Sample#19 Text:G0PC4-2-AC :G4L090480-2RX Exp:NDMAVOA

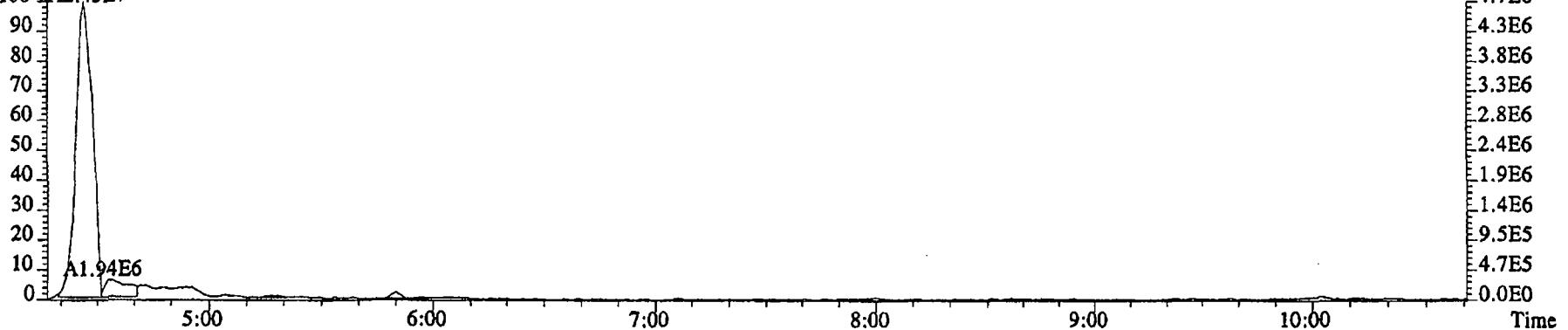
75.0002 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104048.0,1.00%,F,T)

100 %A3.93E7



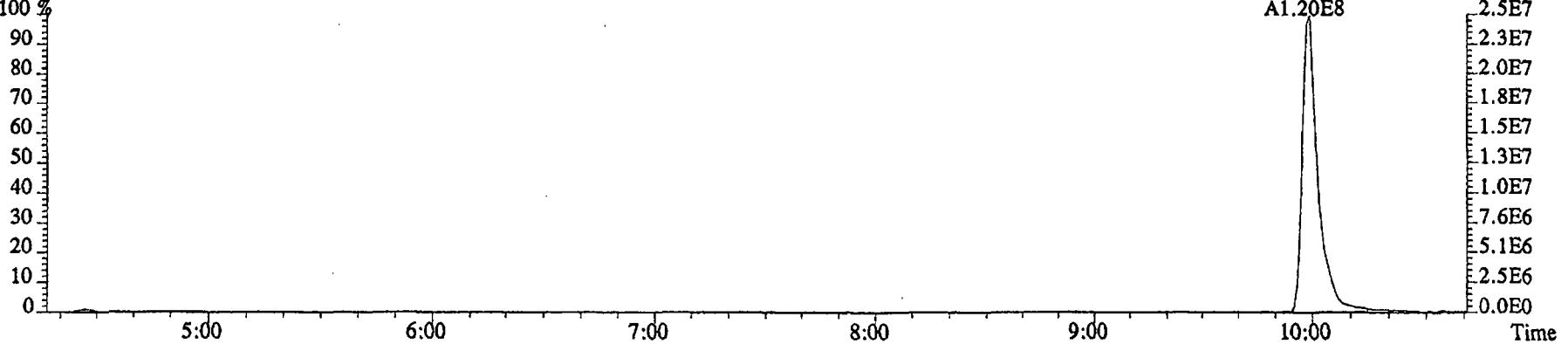
76.9972 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19904.0,1.00%,F,T)

100 %A2.45E7

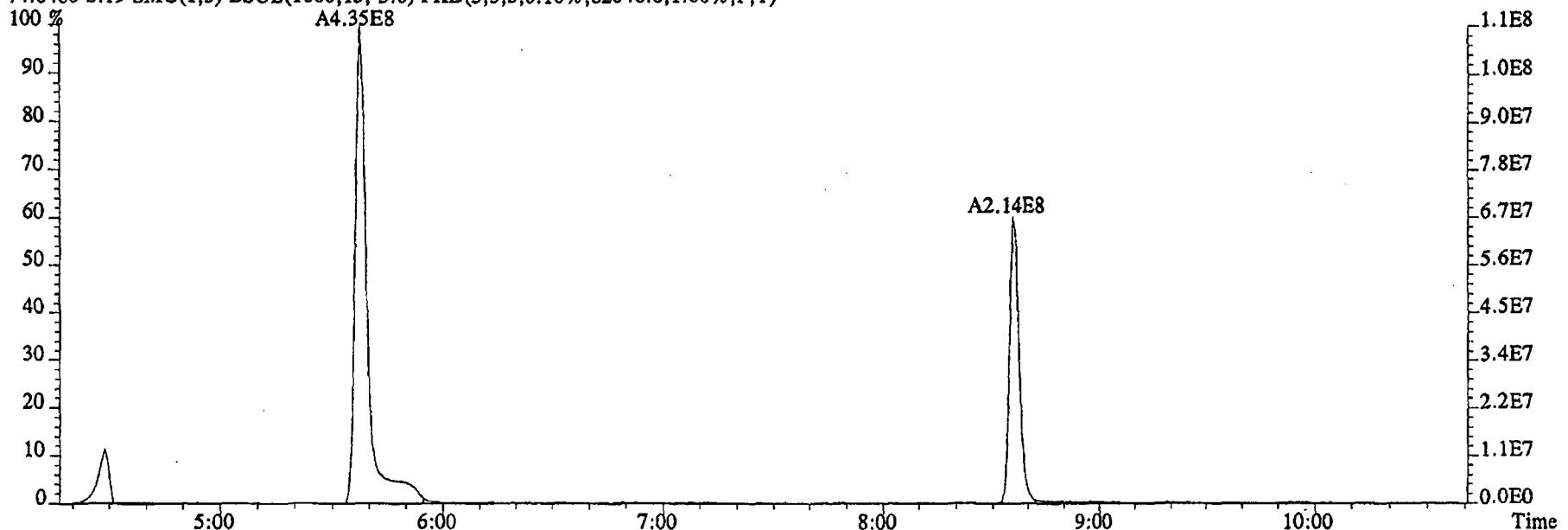


79.0253 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12400.0,1.00%,F,T)

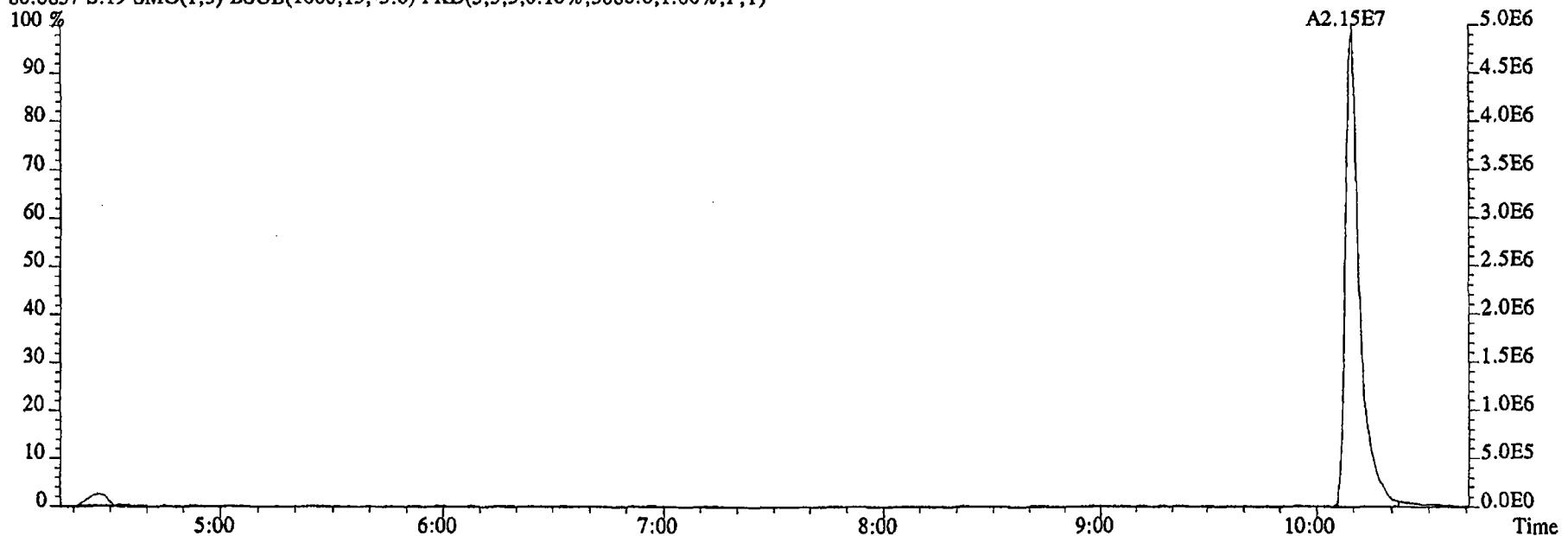
100 %



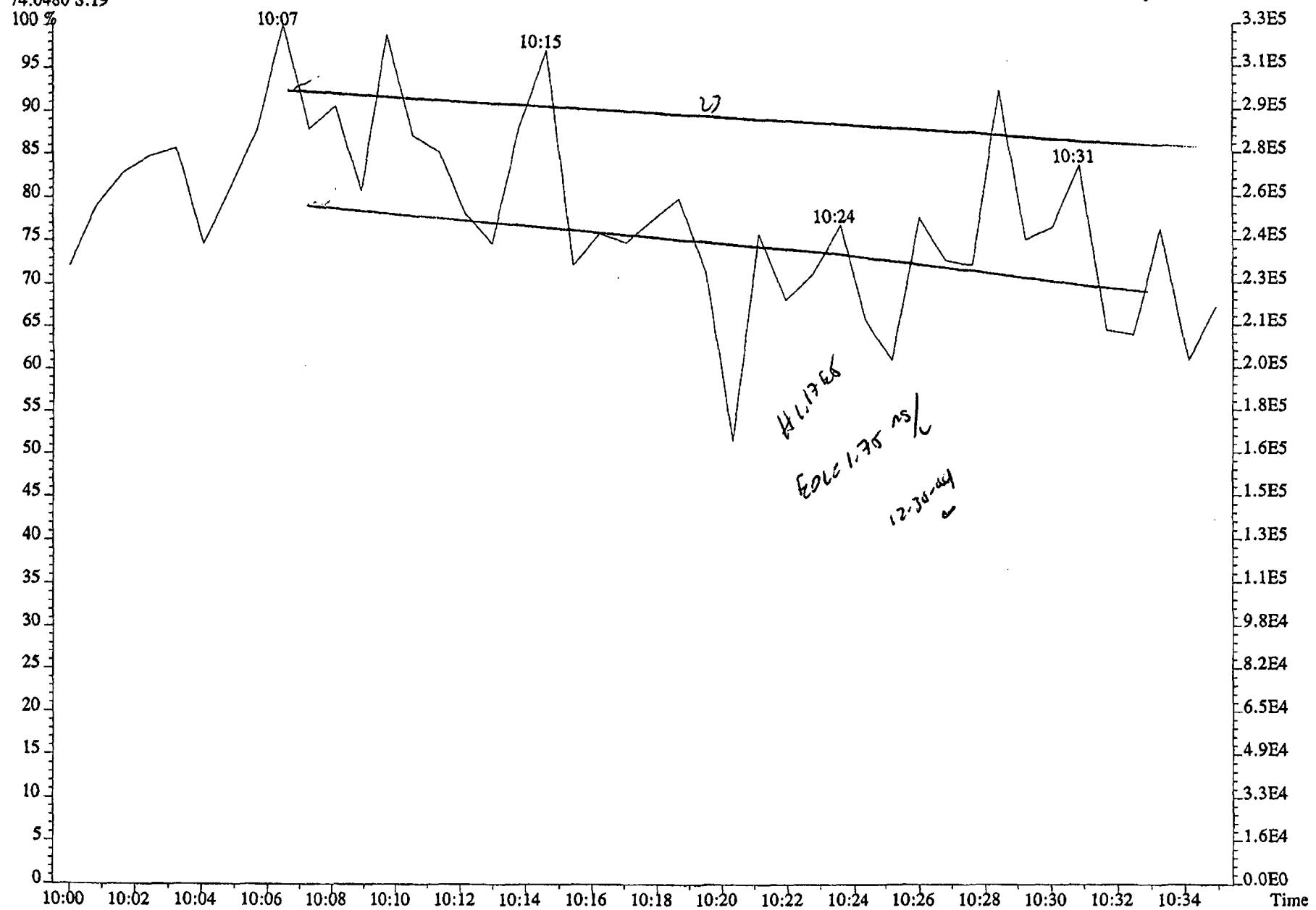
File:22DE045SP #1-474 Acq:23-DEC-2004 02:04:10 GC EI+ Voltage SIR 70SE  
Sample#19 Text:G0PC4-2-AC :G4L090480-2RX Exp:NDMAVOA  
74.0480 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,82048.0,1.00%,F,T)



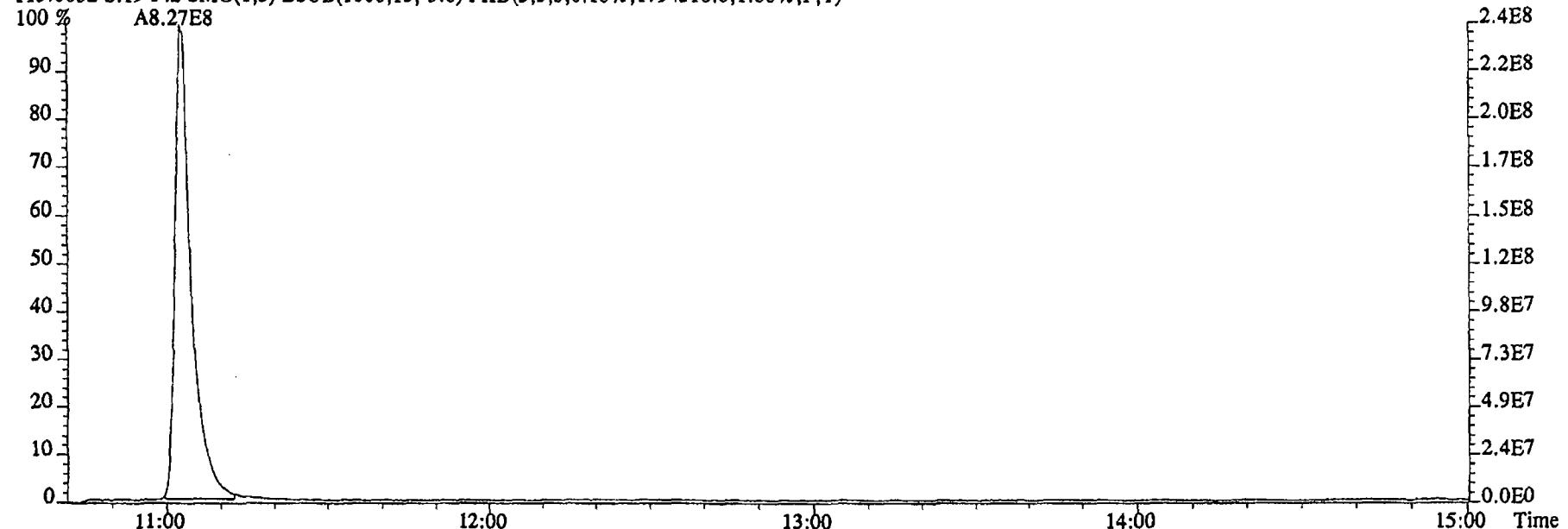
80.0857 S:19 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3088.0,1.00%,F,T)



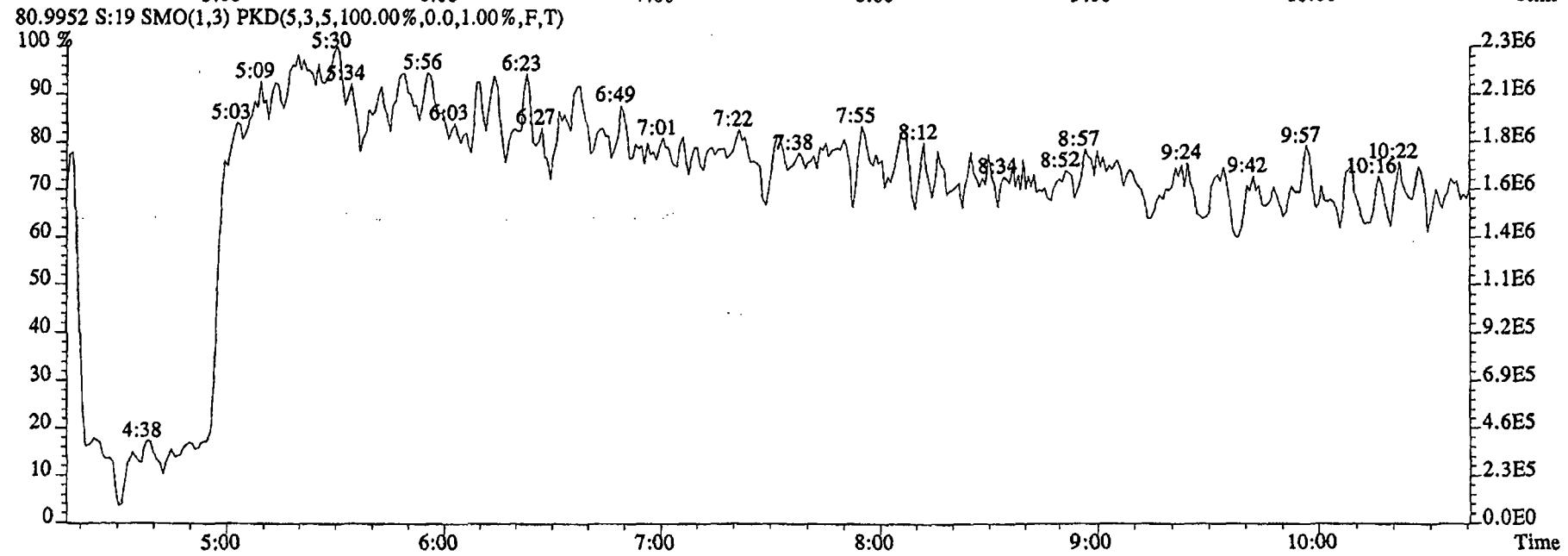
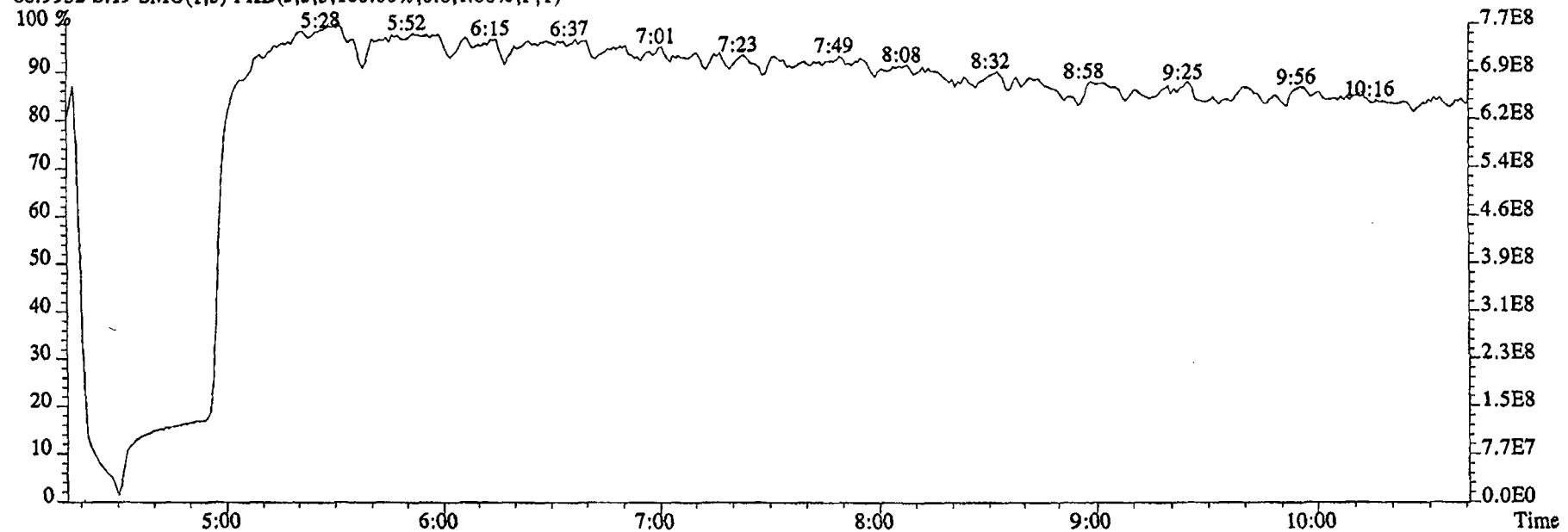
File:22DE045SP #1-474 Acq:23-DEC-2004 02:04:10 GC EI+ Voltage SIR 70SE  
 Sample#19 Text:G0PC4-2-AC :G4L090480-2RX Exp:NDMAVOA  
 74.0480 S:19



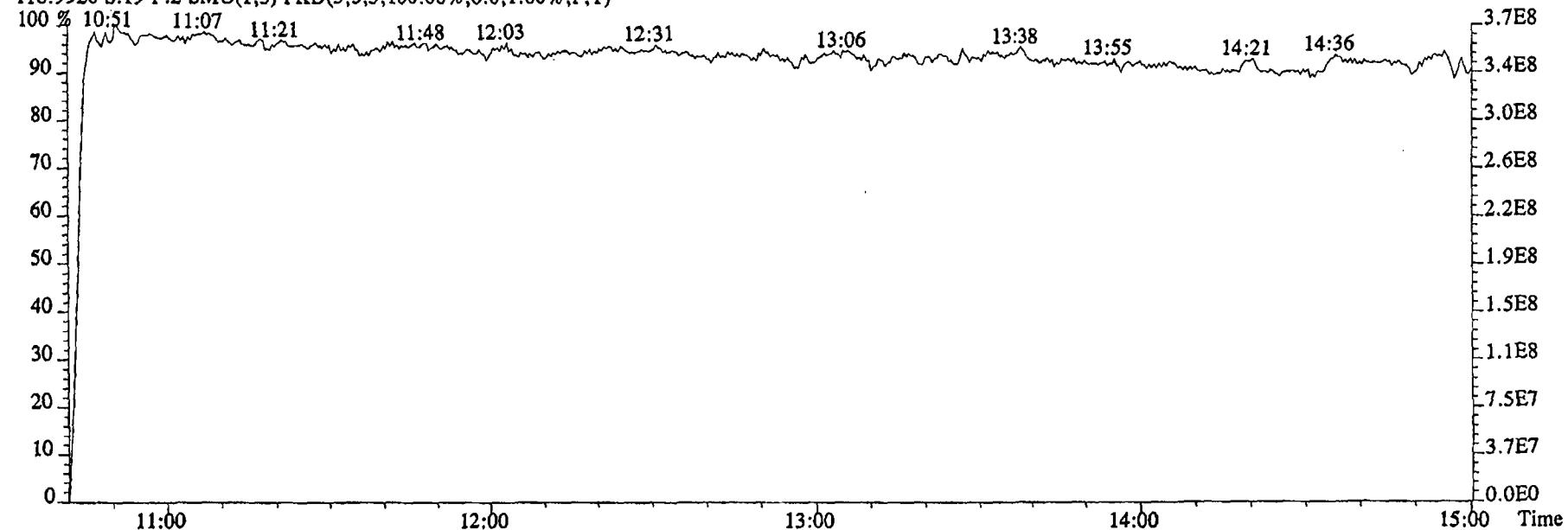
File:22DE045SP #1-602 Acq:23-DEC-2004 02:04:10 GC EI + Voltage SIR 70SE  
Sample#19 Text:GOPC4-2-AC :G4L090480-2RX Exp:NDMAVOA  
113.0032 S:19 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1794516.0,1.00%,F,T)



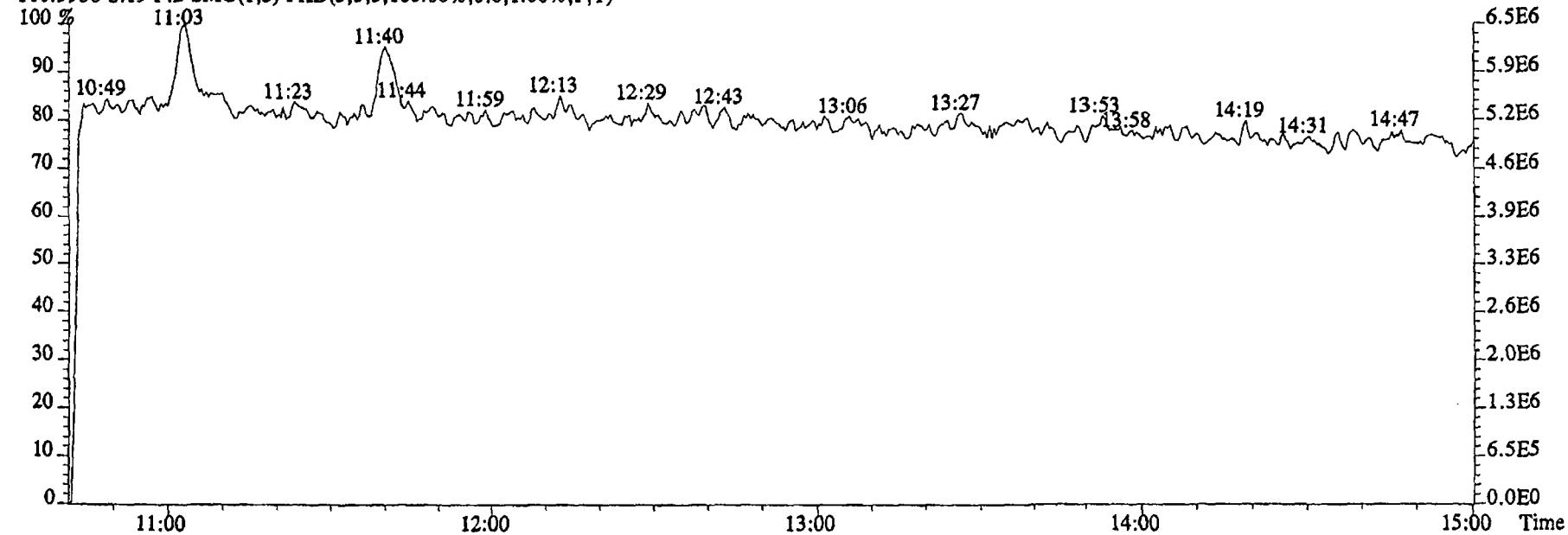
File:22DE045SP #1-474 Acq:23-DEC-2004 02:04:10 GC EI+ Voltage SIR 70SE  
 Sample#19 Text:G0PC4-2-AC :G4L090480-2RX Exp:NDMAVOA  
 68.9952 S:19 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:22DE045SP #1-602 Acq:23-DEC-2004 02:04:10 GC EI + Voltage SIR 70SE  
Sample#19 Text:G0PC4-2-AC :G4L090480-2RX Exp:NDMAVOA  
118.9920 S:19 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:19 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



## Quantitation Summary

STL

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Run text: G0PC5-2-AC      Sample text: G0PC5-2-AC :G4L090480-3RX  
 Run #24 Filename: 29DE045SP    S: 25    I: 1      Results: 29DE045SP1625  
 Acquired: 29-DEC-04 21:40:39      Processed: 30-DEC-04 15:28:52  
 Run: 29DE045SP      Analyte: 1625      Cal: 16251229045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.985 L

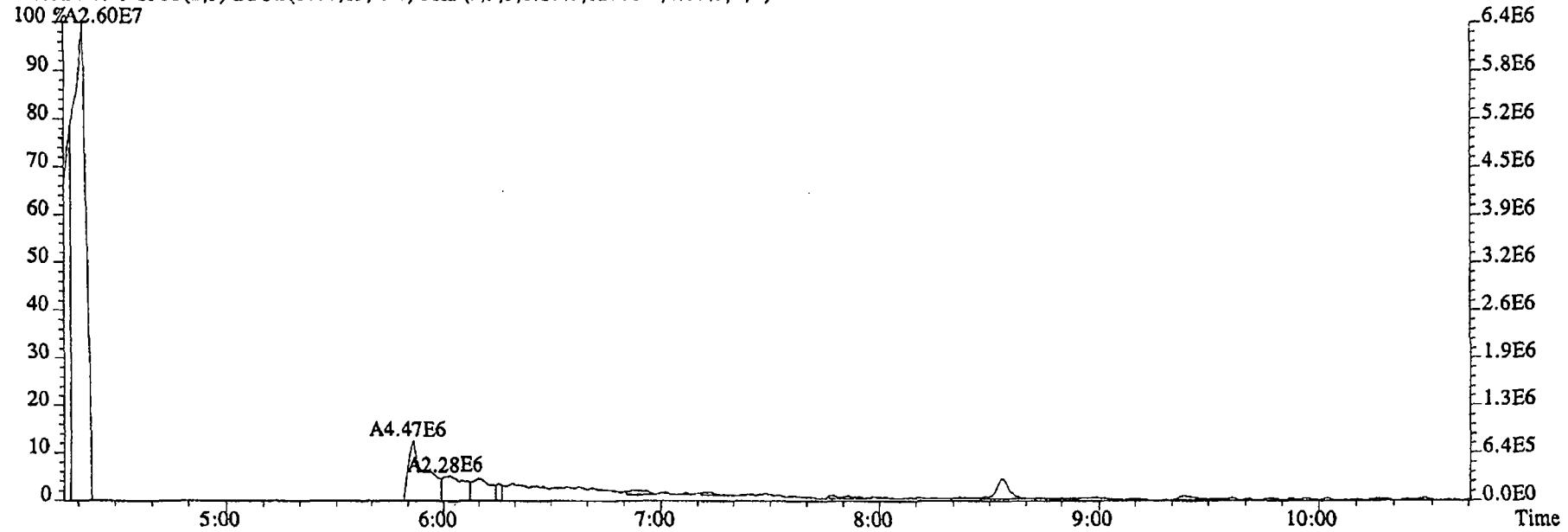
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	117272000		11:13	-	640.78	-	-	n
D8-1,4-Dioxane	*		Not Fnd	1.11	*	3.30	*	n
1,4-Dioxane	*		Not Fnd	1.89	*	*	-	n
D5-123-TriChloroPropane	163372000		10:12	2.68	105.36	0.04	103.8	n
1,2,3-TriChloroPropane	407100		10:16	0.44	0.58	0.10	-	n
1,2,3-TriChloroPropane	*		Not Fnd	-	*	-	-	n
D6-NDMA	30639600		10:24	1.68	31.53	0.01	31.1	n
NDMA	1763660		10:23	1.37	4.27 ✓ B	3.55 6.67	-	y
2-Chloropyridine	361935000		11:13	-	624.85	-	-	n

12-10-04  
CJ

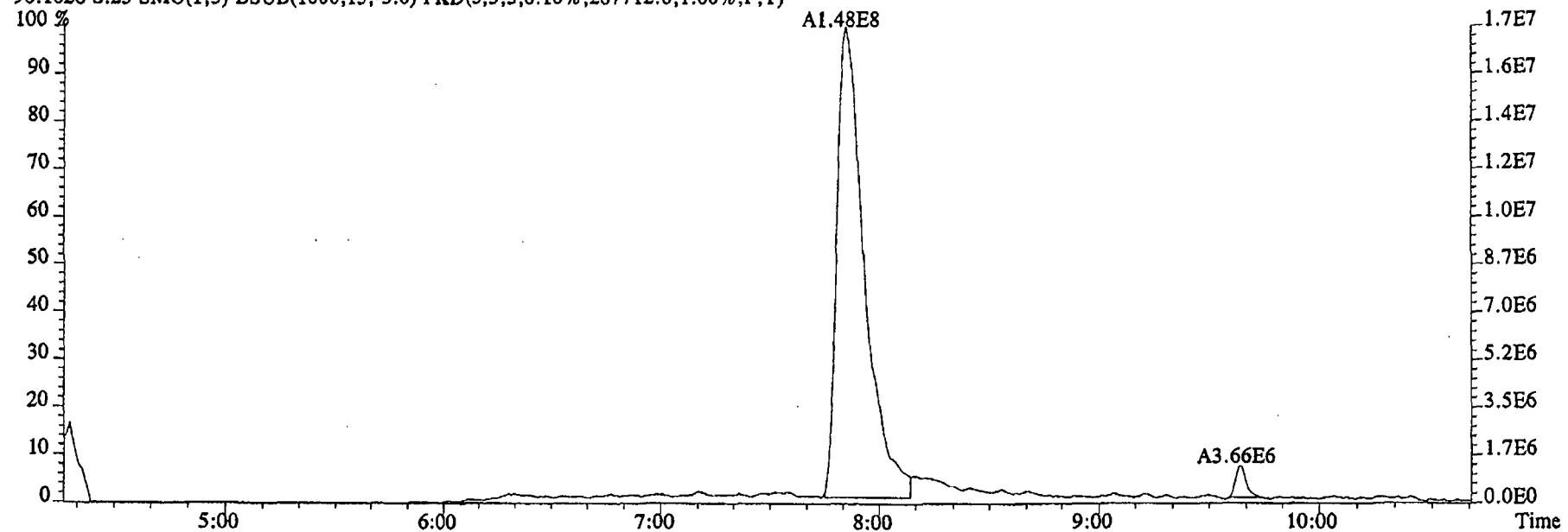
Run text: G0PC5-2-AC      Sample text: G0PC5-2-AC :G4L090480-3RX  
 Run #24 Filename: 29DE045SP S: 25 I: 1 Results: 29DE045SP1625  
 Acquired: 29-DEC-04 21:40:39      Processed: 30-DEC-04 15:28:52  
 Run: 29DE045SP      Analyte: 1625      Cal: 16251229045SP  
 Factor 1: 1.000      Factor 2: 1.000      Sample size: 0.985 L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	117272000		11:13	-	640.78	-	-	n
D8-1,4-Dioxane	*		NotFnd	1.11	*	3.30	*	n
1,4-Dioxane	*		NotFnd	1.89	*	*	-	n
D5-123-TriChloroPropane	163372000		10:12	2.68	105.36	0.04	103.8	n
1,2,3-TriChloroPropane	407100		10:16	0.44	0.58	0.10	-	n
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	30639600		10:24	1.68	31.53	0.01	31.1	n
NDMA	3448880		10:23	1.37	8.36	3.55	-	n
2-Chloropyridine	361935000		11:13	-	624.85	-	-	n

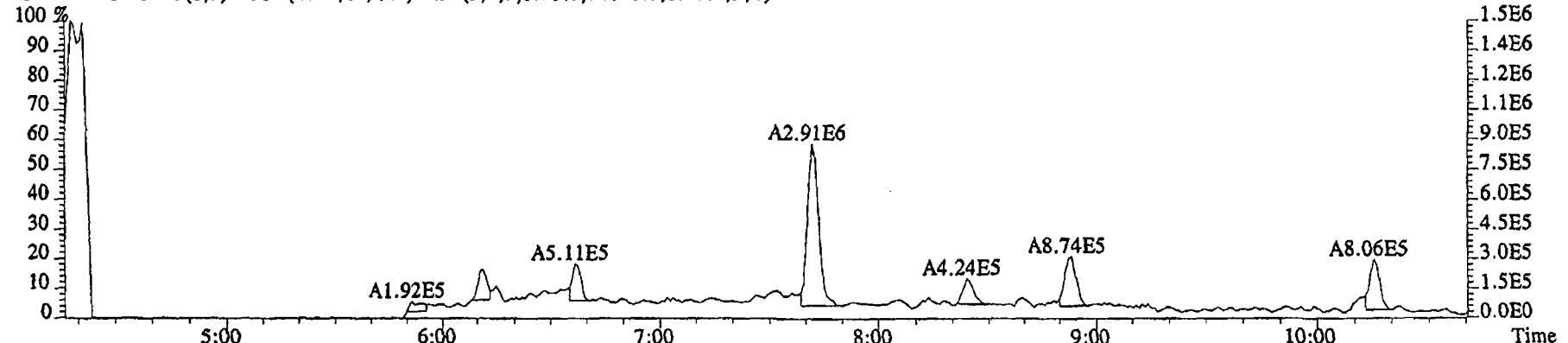
File:29DE045SP #1-474 Acq:29-DEC-2004 21:40:39 GC EI+ Voltage SIR 70SE  
 Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
 88.0524 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12708.0,1.00%,F,T)



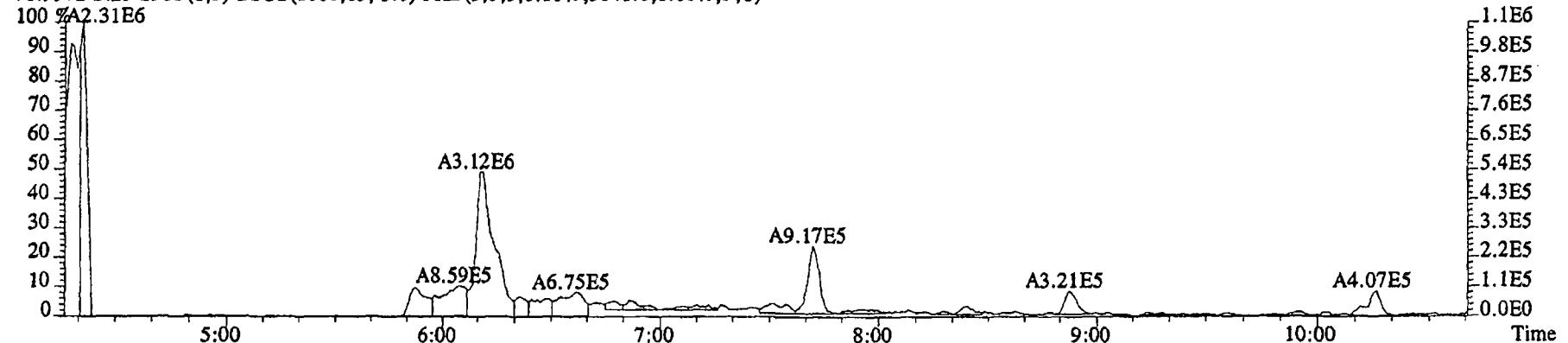
96.1026 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,267712.0,1.00%,F,T)



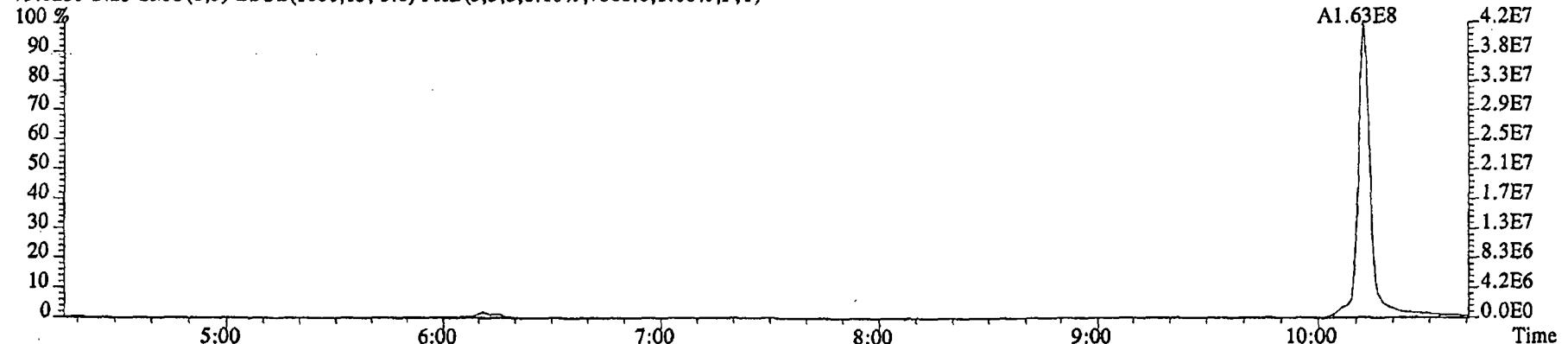
File:29DE045SP #1-474 Acq:29-DEC-2004 21:40:39 GC EI+ Voltage SIR 70SE  
 Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
 75.0002 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,71840.0,1.00%,F,T)



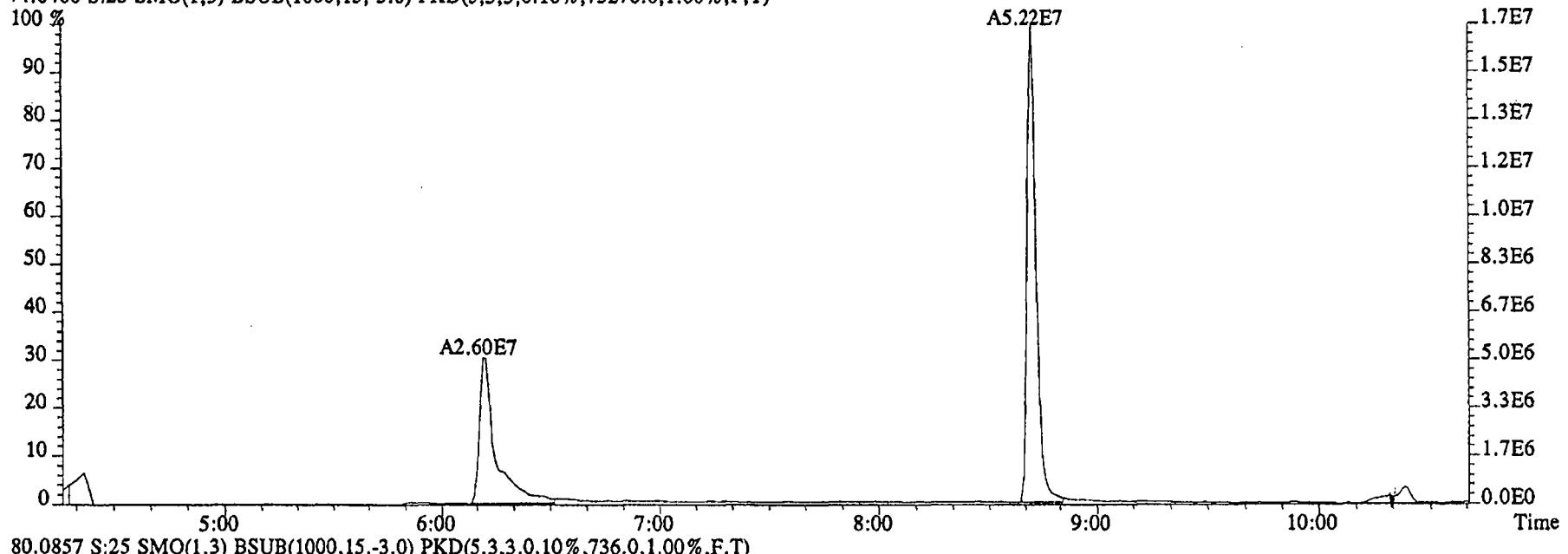
76.9972 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5840.0,1.00%,F,T)



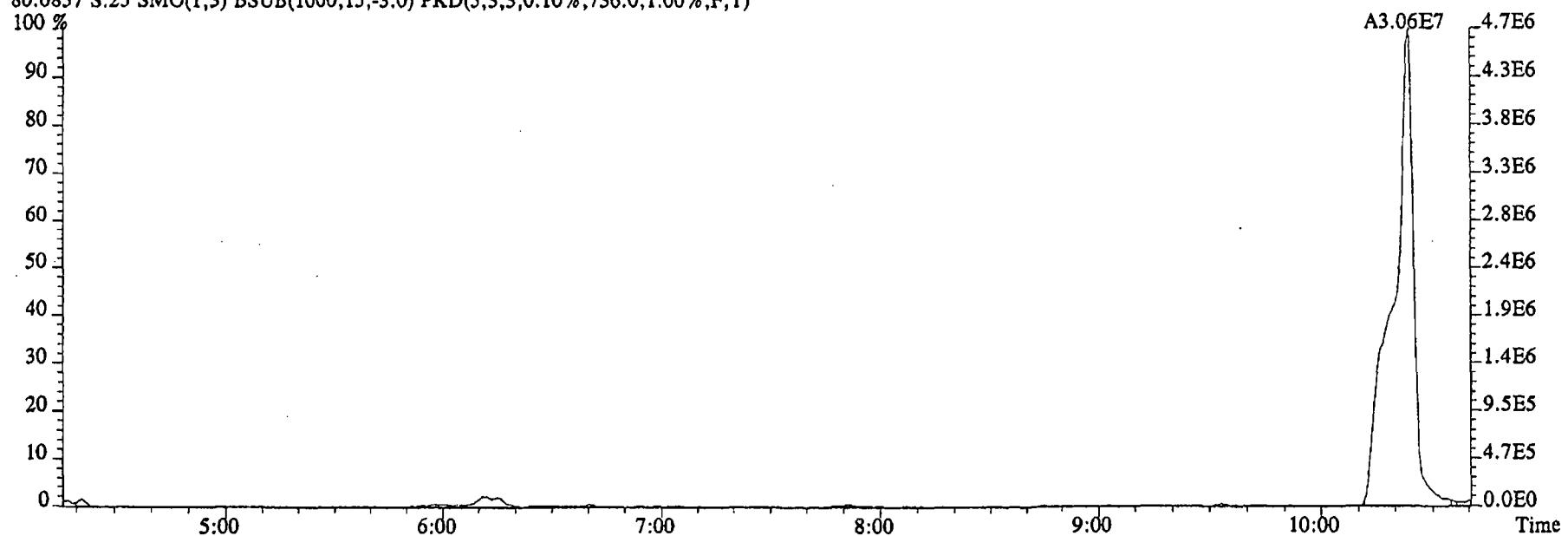
79.0253 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7660.0,1.00%,F,T)



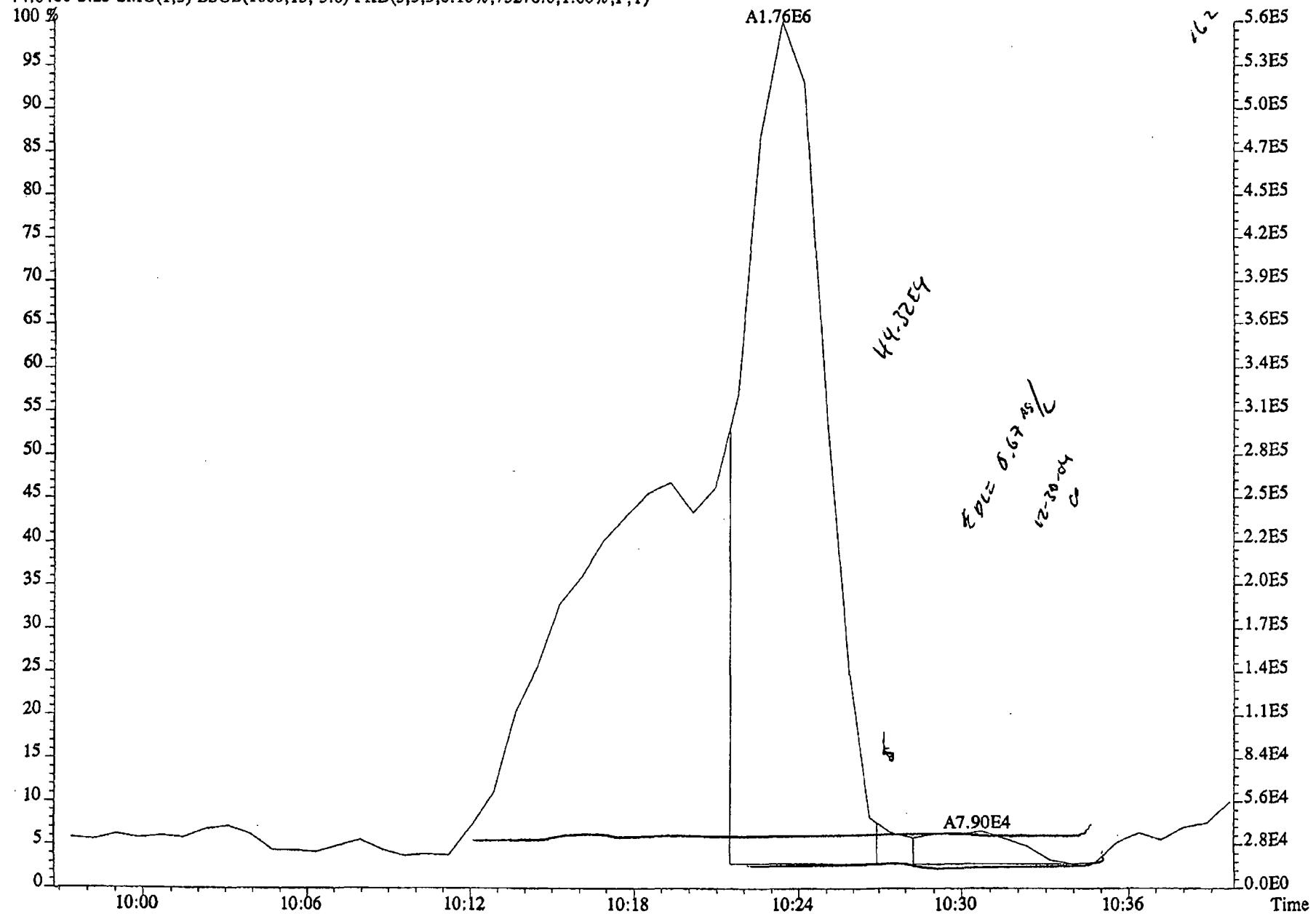
File:29DE045SP #1-474 Acq:29-DEC-2004 21:40:39 GC EI+ Voltage SIR 70SE  
Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
74.0480 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75276.0,1.00%,F,T)



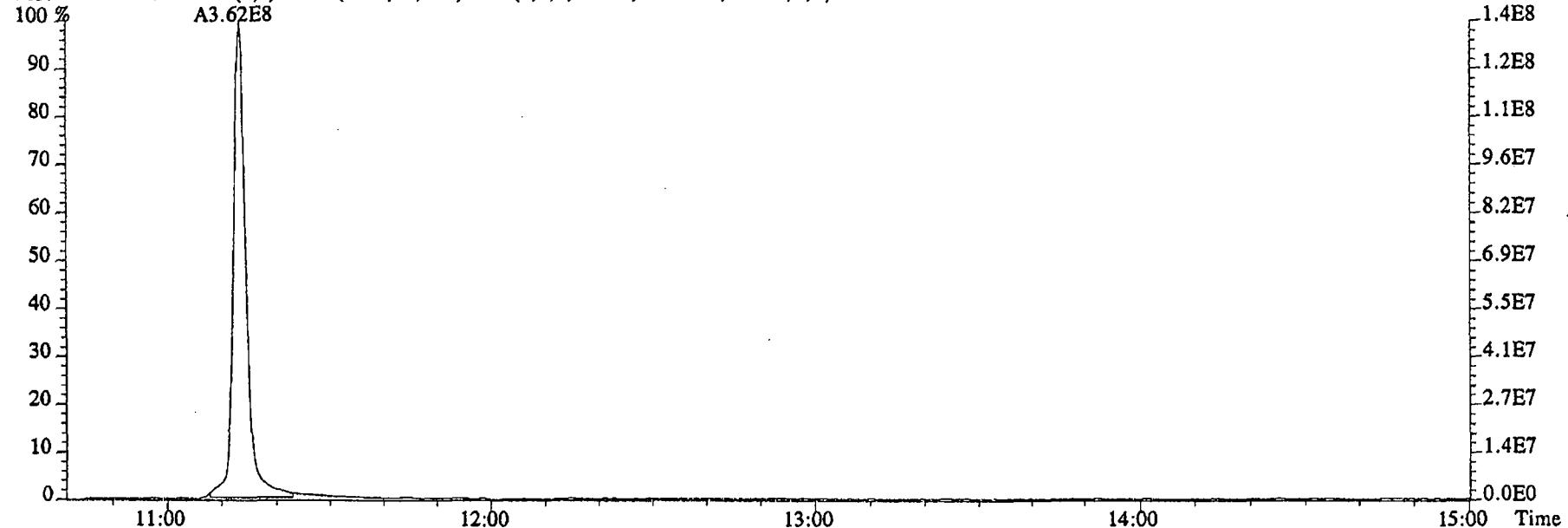
80.0857 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,736.0,1.00%,F,T)



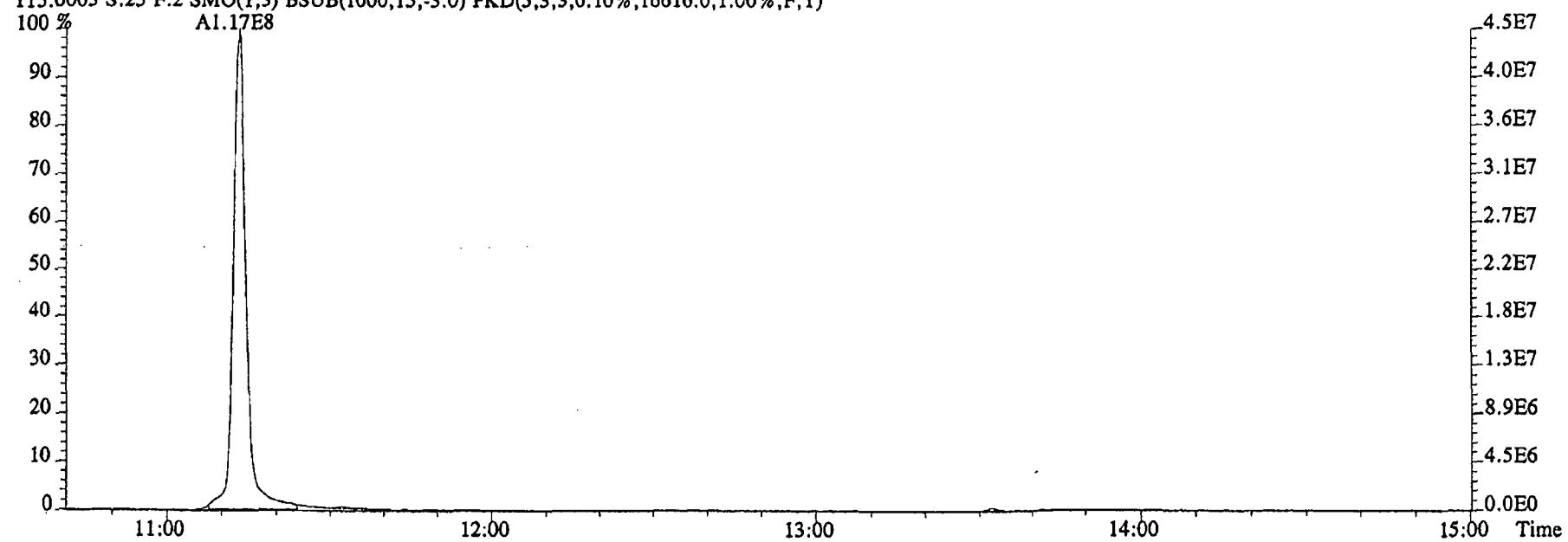
File:29DE045SP #1-474 Acq:29-DEC-2004 21:40:39 GC El+ Voltage SIR 70SE  
Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
74.0480 S:25 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75276.0,1.00%,F,T)



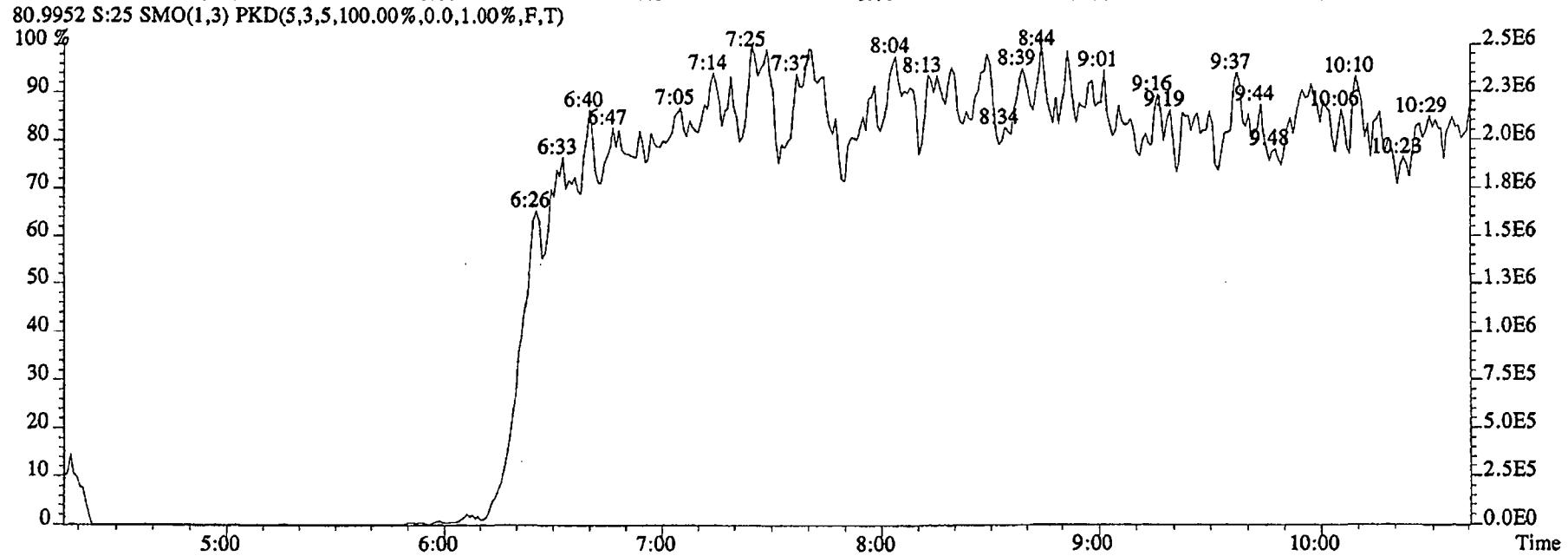
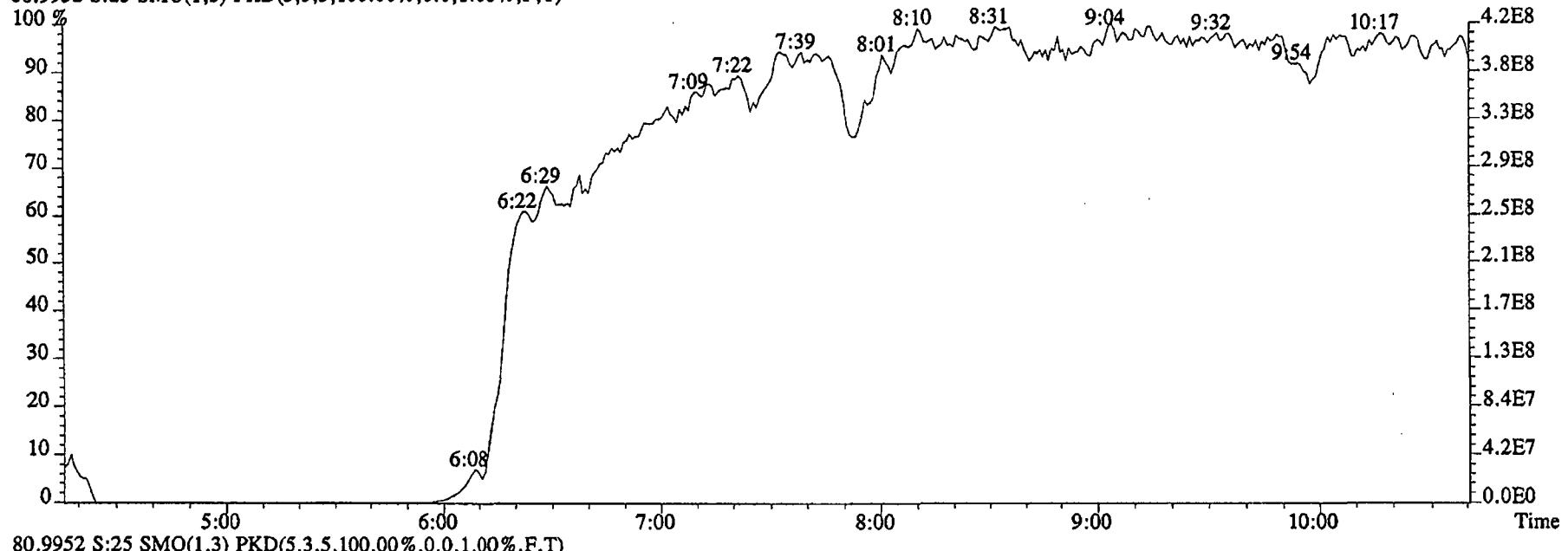
File:29DE045SP #1-602 Acq:29-DEC-2004 21:40:39 GC EI+ Voltage SIR 70SE  
Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
113.0032 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,456176.0,1.00%,F,T)



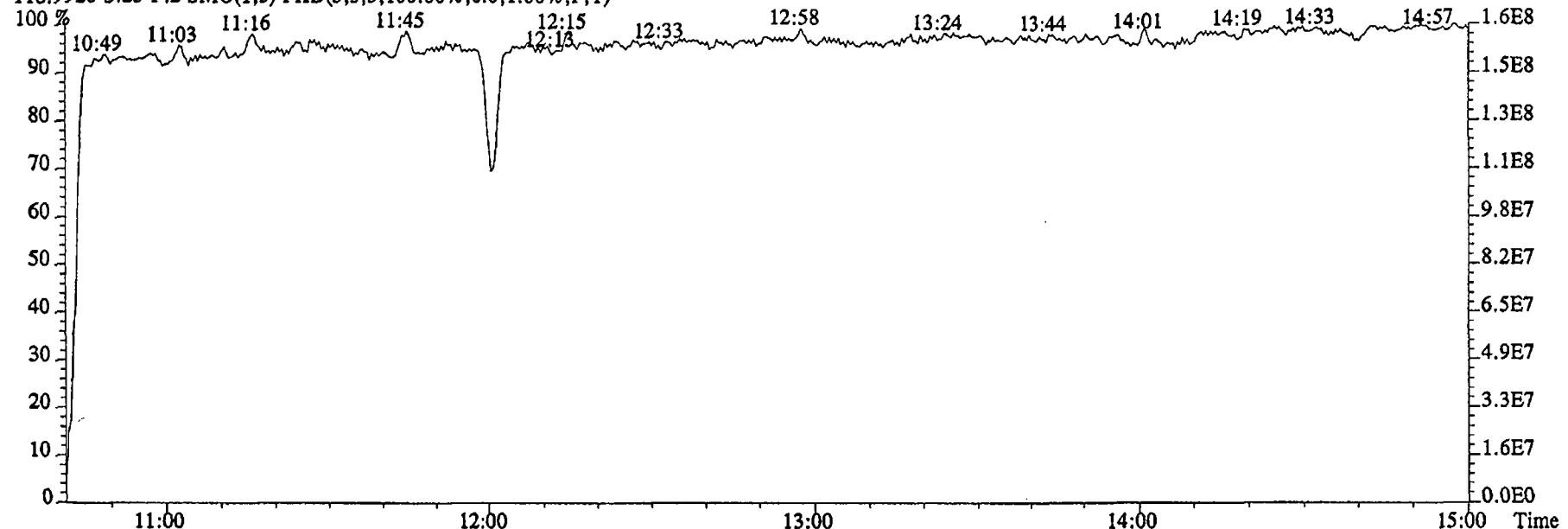
115.0003 S:25 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16616.0,1.00%,F,T)



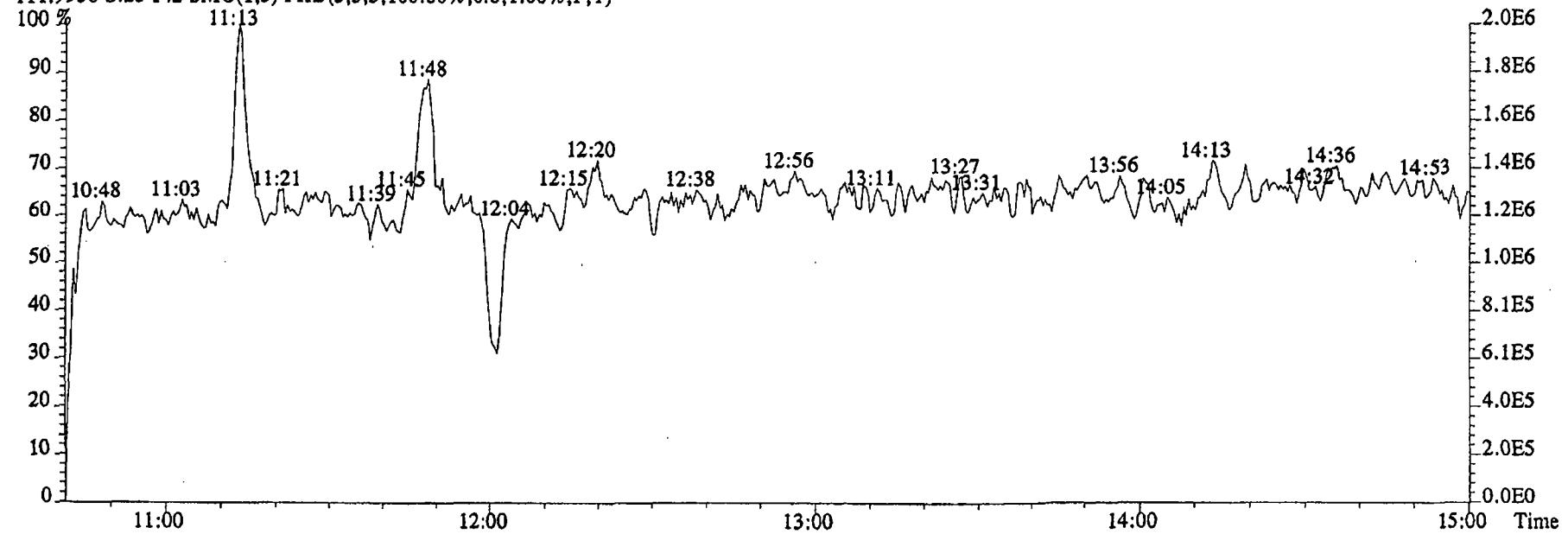
File:29DE045SP #1-474 Acq:29-DEC-2004 21:40:39 GC EI+ Voltage SIR 70SE  
Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
68.9952 S:25 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-602 Acq:29-DEC-2004 21:40:39 GC EI + Voltage SIR 70SE  
Sample#25 Text:G0PC5-2-AC :G4L090480-3RX Exp:NDMAVOA  
118.9920 S:25 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:25 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



**Daily Standard Checklist**  
**High Resolution**

Method ID 1625 (000)  
 Column ID SP-2331  
 STD ID STD222  
 Analyzed By A Meagor  
 Prepared By C Pichell  
 Reviewed By AM

Associated ICAL 1625/2160455P  
 Instrument ID ESP  
 STD Solution 2350-68C  
 Date Analyzed 12-22-04  
 Date Prepared 12-30-04  
 Date Reviewed 12-30-04

CRITERIA	VERIFIED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓/NA①	✓①
Copy of log-file and Static Resolution present?	✓	✓
CPSM blow up present?	NA①	NA①
Curve Summary present?	✓	✓
Summary of Method criteria present?	NA	NA
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	NA	NA
CPSM valley ≤ method specified limits?**	NA①	NA①
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard and ending Static Resolutions present	NA	NA

COMMENTS: ① No CSM solution in 1625 method.

- \* Method 8290: (beginning) +/- 20% from curve RRFs for native analytes, +/- 30% from curve RRFs for labeled compounds.  
 Method 8290: (ending) +/- 25% from curve RRFs for native analytes, +/- 35% from curve RRFs for labeled compounds.  
 Method 8290 (GB): +/- 30% from curve RRFs for native analytes.  
 Method 23: See Method 23 Daily Standard Criteria, Table 5.  
 Method 1613A/1613B: See Method 1613A, Method 1613B or Method 1613B Tetras Daily Standard Criteria.  
 PAH: +/- 30% from curve RRFs for native and labeled compounds.  
 PCB: +/- 30% from curve RRFs for native and 50% for labeled compounds.  
 NCASI 551: +/-20% from curve RRFs for native and labeled compounds.  
 DBD/DBF: +/-30% from curve RRFs for native analytes; +/- 40% from curve RRFs for labeled compounds.

- \*\* Method 23 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and the closest eluters normalized at the smallest peak height of the three peaks (with the 2378 peak being the middle peak).  
 551/1613A/1613B/8290 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.  
 GB CPSM Criteria: 30% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1222  
 Run #6   Filename 22DE045SP   S: 1  
 Acquired: 22-DEC-04 19:57:46  
 Run: 22DE045SP   Analyte: 1625

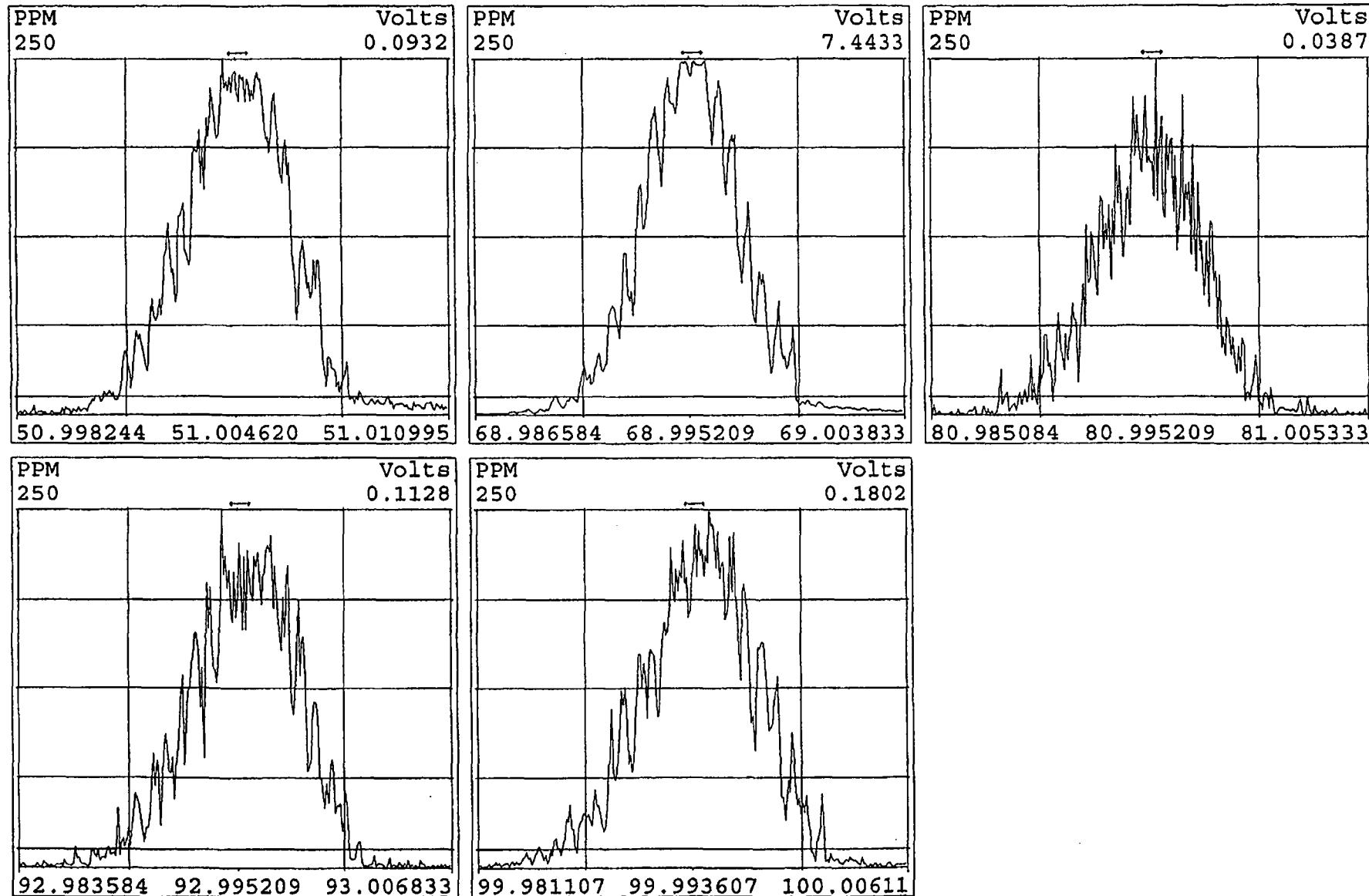
File text: CS3 2350-68C  
 I: 1  
 Processed: 22-DEC-04 20:19:16  
 Cal: 16251216045SP   Results: 22DE045SP1625

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
2-Chloropyridine	136724000		11:03	-	200.00	-	n
D8-1,4-Dioxane	337789000		5:06	0.49	1000.00	-24.6	n
1,4-Dioxane	20990400		5:06	1.24	50.00	17.9	n
D5-123-TriChloroPropane	140901000		9:59	2.06	100.00	-12.3	n
1,2,3-TriChloroPropane	28356800		10:03	0.40	50.00	-16.4	n
1,2,3-TriChloroPropane	93735100		10:04	-	50.00	-	n
D6-NDMA	83606700		10:10	1.22	100.00	-17.4	n
NDMA	55779800		10:10	1.33	50.00	-2.9	n
2-Chloropyridine	425870000		11:03	-	200.00	-	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
22DE045SP	1	ST1222	CS3 2350-68C				1.000	
22DE045SP	2	SB1222	Solvent Blank DCM				1.000	
22DE045SP	3	G1NWF-1-AAB	G4L080479-1MBRX	500	1625/WATER	VS56	1.000	L
22DE045SP	4	G1NWF-1-ACC	G4L080479-1LCSRX	500	1625/WATER		1.000	L
22DE045SP	5	G0K68-2-AC	G4L080479-1RX	500	1625/WATER		0.974	L
22DE045SP	6	G0K69-2-AC	G4L080479-2RX	500	1625/WATER		0.972	L
22DE045SP	7	G0K7A-2-AC	G4L080479-3RX	500	1625/WATER		0.652	L
22DE045SP	8	G0K7D-2-AC	G4L080479-4RX	500	1625/WATER		0.933	L
22DE045SP	9	G0K7E-2-AC	G4L080479-5RX	500	1625/WATER		0.928	L
22DE045SP	10	G0K7F-2-AC	G4L080479-6RX	500	1625/WATER		0.896	L
22DE045SP	11	G0L99-1-AE	E4L090217-8	1500	1625/WATER		0.987	L
22DE045SP	12	G1J3M-1-AAB	E4L140212-4MB	500	1625/WATER	VS56	1.000	L
22DE045SP	13	G1J3M-1-ACC	E4L140212-4LCS	500	1625/WATER		1.000	L
22DE045SP	14	G01DV-1-AA	E4L140212-4	500	1625/WATER		1.034	L
22DE045SP	15	G01FC-1-AA	E4L140212-6	500	1625/WATER		1.056	L
22DE045SP	16	G06AP-1-AA	E4L150369-17	500	1625/WATER		1.038	L
22DE045SP	17	G1J3M-1-ADL	E4L150369-17LCS	500	1625/WATER		1.000	L
22DE045SP	18	G0PC2-2-AC	G4L090480-1RX	500	1625/WATER		0.973	L
22DE045SP	19	G0PC4-2-AC	G4L090480-2RX	500	1625/WATER		0.976	L
22DE045SP	20	G0PC5-2-AC	G4L090480-3RX	500	1625/WATER		0.985	L
22DE045SP	21	G0R14-2-AA	G4L100385-5RX	500	1625/WATER		0.915	L
22DE045SP	22	G0MLW-2-AA	G4L090264-1RX	500	1625/WATER		0.970	L
DE045SP	23	SB1222	Solvent Blank DCM				1.000	
22DE045SP	24	ST1222	CS3 2350-68C				1.000	
22DE045SP	25						1.000	
22DE045SP	26						1.000	
22DE045SP	27						1.000	
22DE045SP	28						1.000	
22DE045SP	29						1.000	
22DE045SP	30						1.000	
22DE045SP	31						1.000	
22DE045SP	32						1.000	
22DE045SP	33						1.000	
22DE045SP	34		AM 12-22-04				1.000	
22DE045SP	35						1.000	

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Peak Locate Examination:22-DEC-2004:19:53 File:22DE045SP  
Experiment:NDMAVOA Function:1 Reference:PK



Page 1 of 1

Run: 16DE045SPIC Analyte: 1625

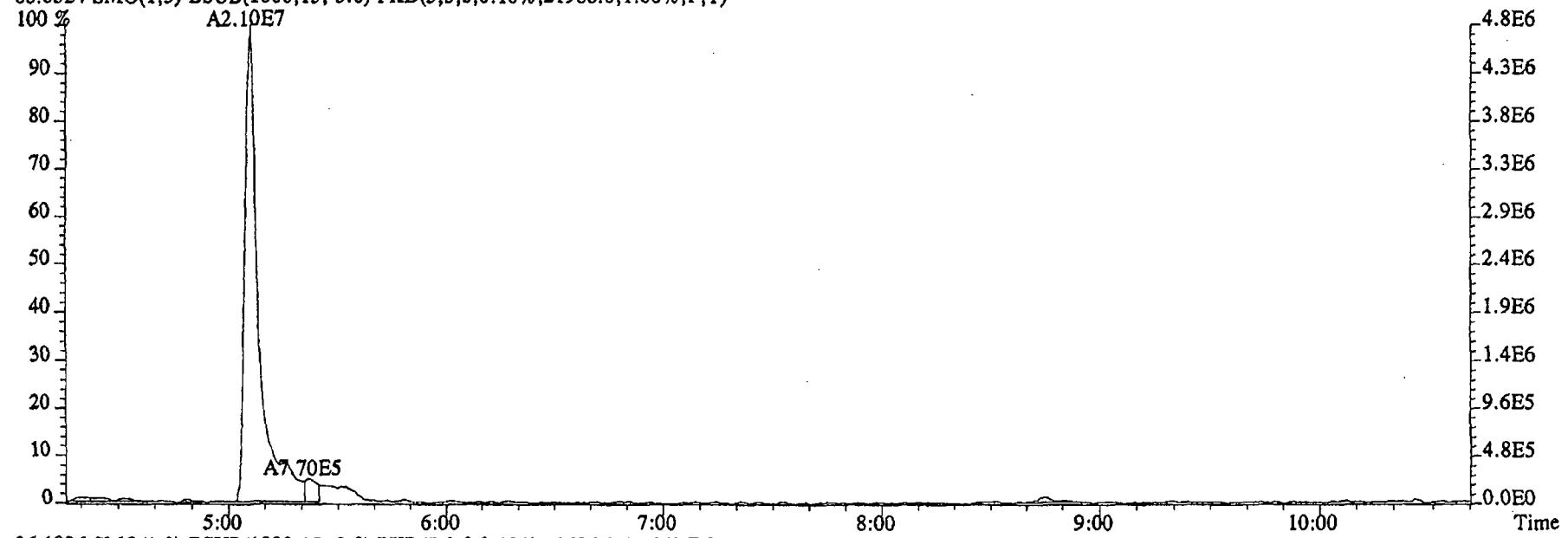
Cal: 16251216045SP

ST1216 :CS1 2350-68A  
ST1216C :CS4 2350-68DST1216A :CS2 2350-68B  
ST1216D :CS5 2350-68E

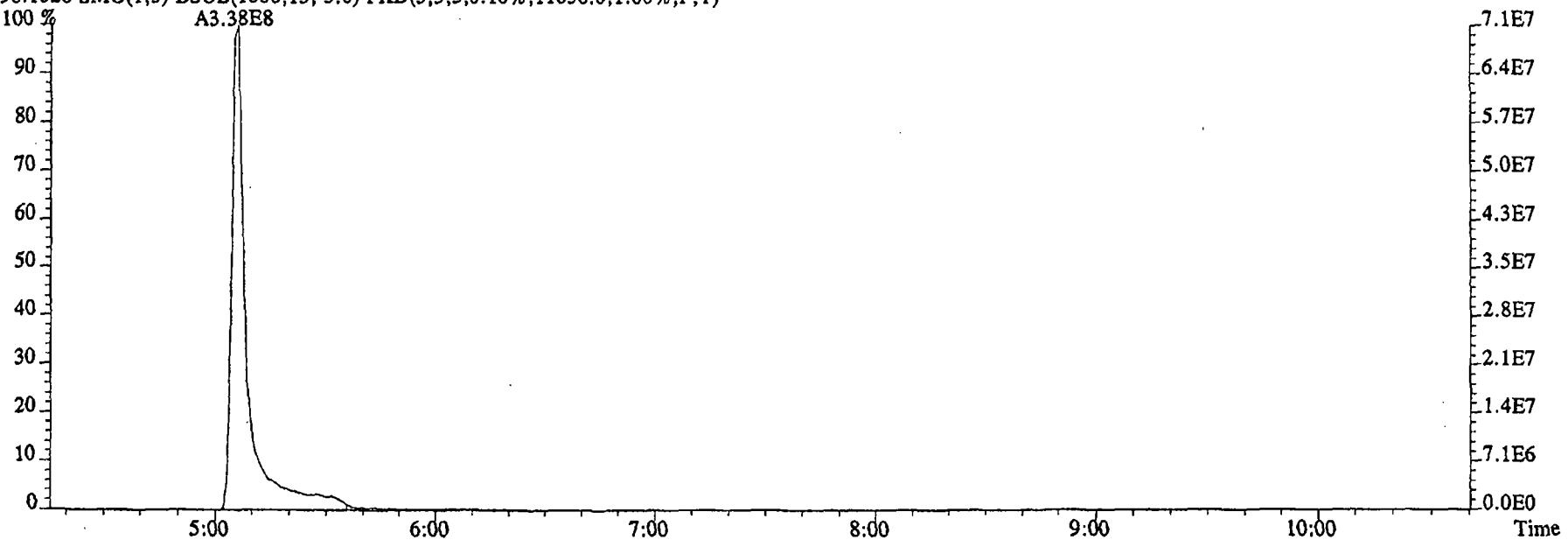
ST1216B :CS3 2350-68C

Name	Mean	S. D.	%RSD	16DE045SP				
				S1	S2	S3	S4	S5
				RRF1	RRF2	RRF3	RRF4	RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.655	0.110	16.8 %	0.59	0.60	0.76	0.79	0.54
1,4-Dioxane	1.054	0.135	12.8 %	1.07	0.90	0.96	1.09	1.25
D5-123-TriChloroPropane	2.351	0.108	4.60 %	2.53	2.35	2.28	2.25	2.35
1,2,3-TriChloroPropane	0.482	0.031	6.41 %	0.46	0.45	0.47	0.52	0.51
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	1.481	0.073	4.91 %	1.50	1.43	1.38	1.52	1.57
NDMA	1.374	0.065	4.74 %	1.29	1.32	1.39	1.44	1.42
2-Chloropyridine	-	-	- %	-	-	-	-	-

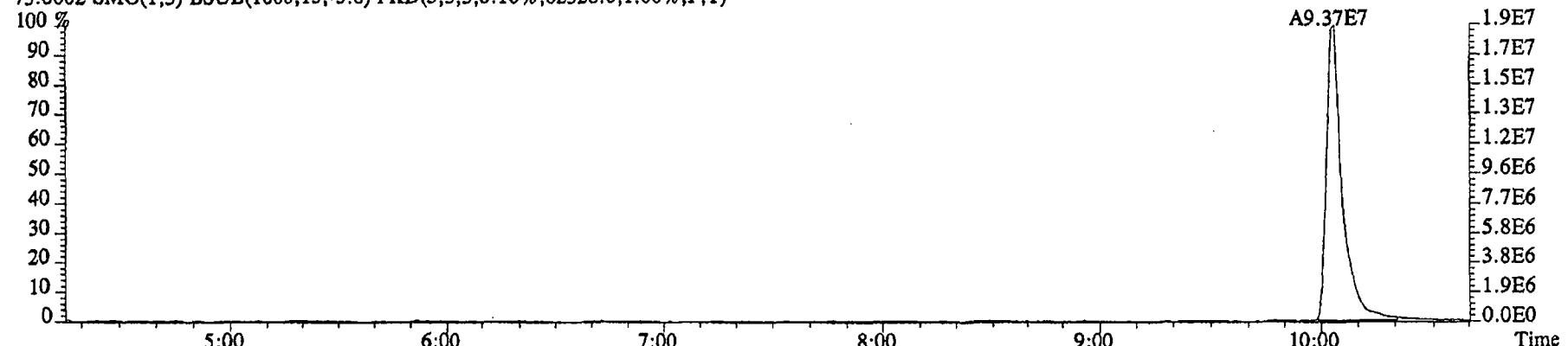
File:22DE045SP #1-474 Acq:22-DEC-2004 19:57:46 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1222 :CS3 2350-68C Exp:NDMAVOA  
88.0524 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21988.0,1.00%,F,T)



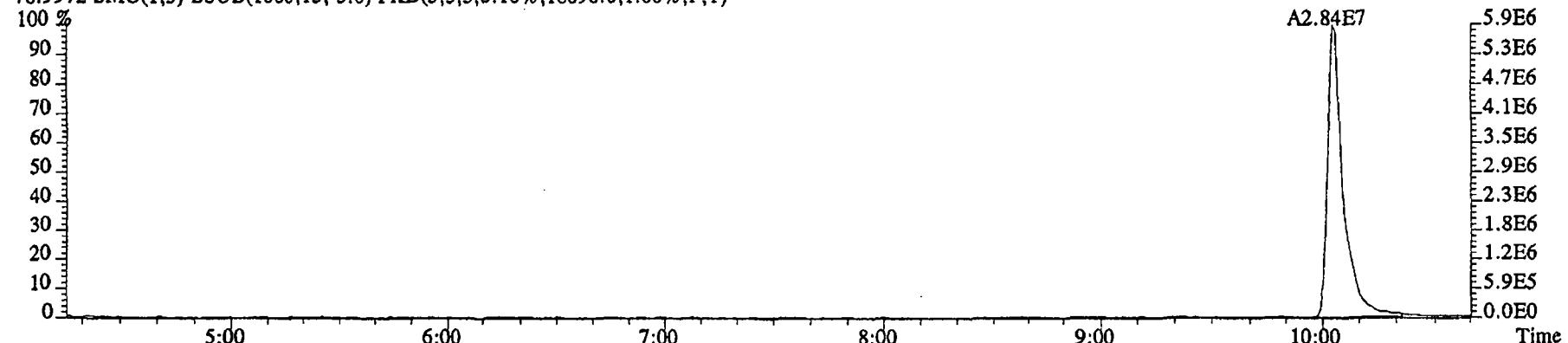
96.1026 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11636.0,1.00%,F,T)



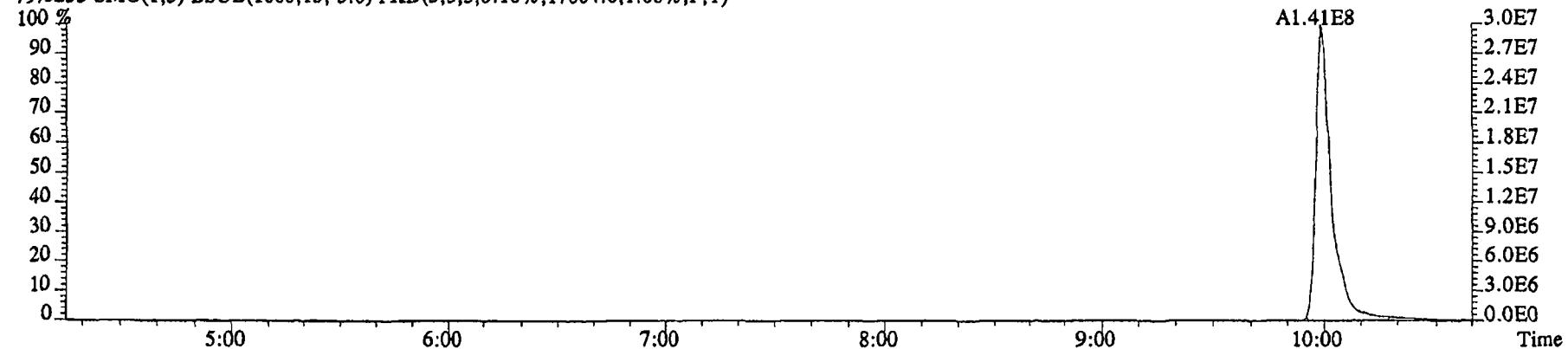
File:22DE045SP #1-474 Acq:22-DEC-2004 19:57:46 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:ST1222 :CS3 2350-68C Exp:NDMAVOA  
 75.0002 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,62328.0,1.00%,F,T)



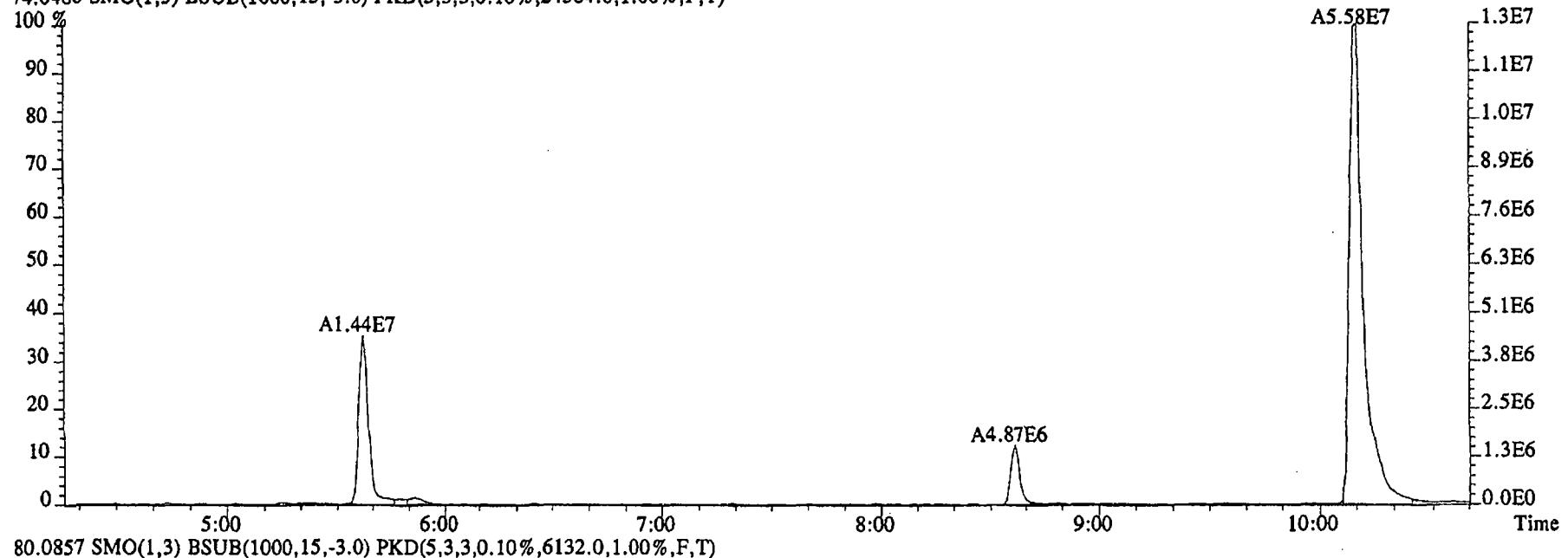
76.9972 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18096.0,1.00%,F,T)



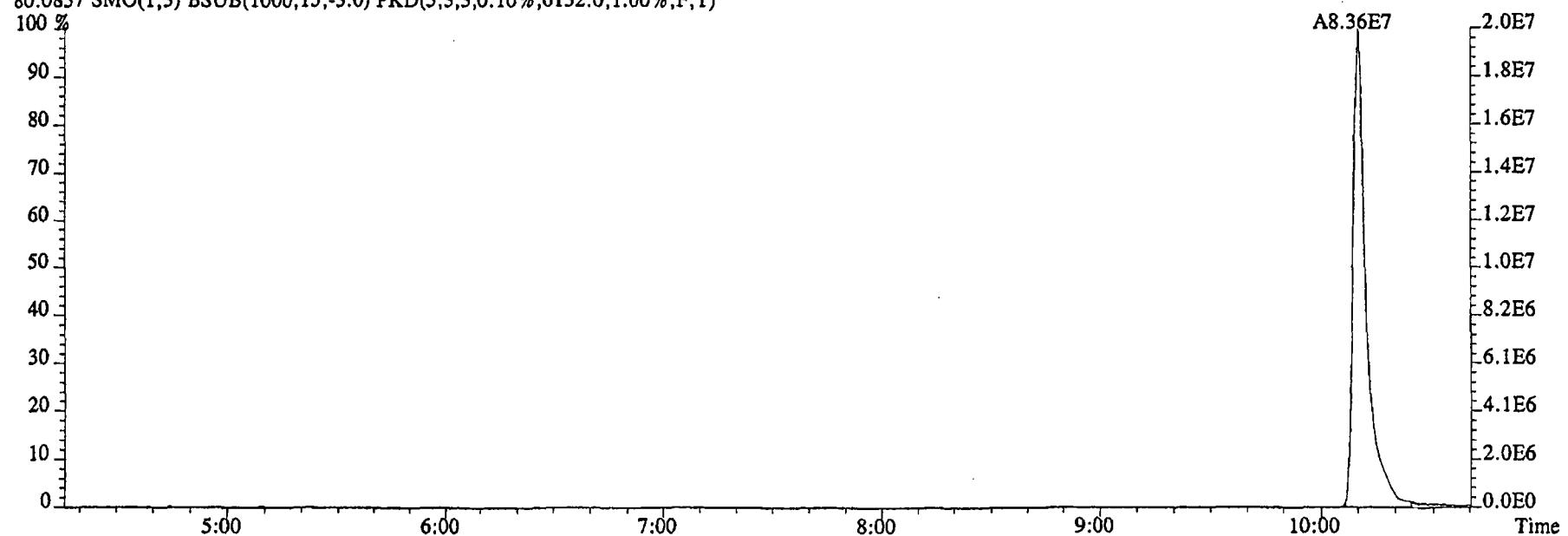
79.0253 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17004.0,1.00%,F,T)



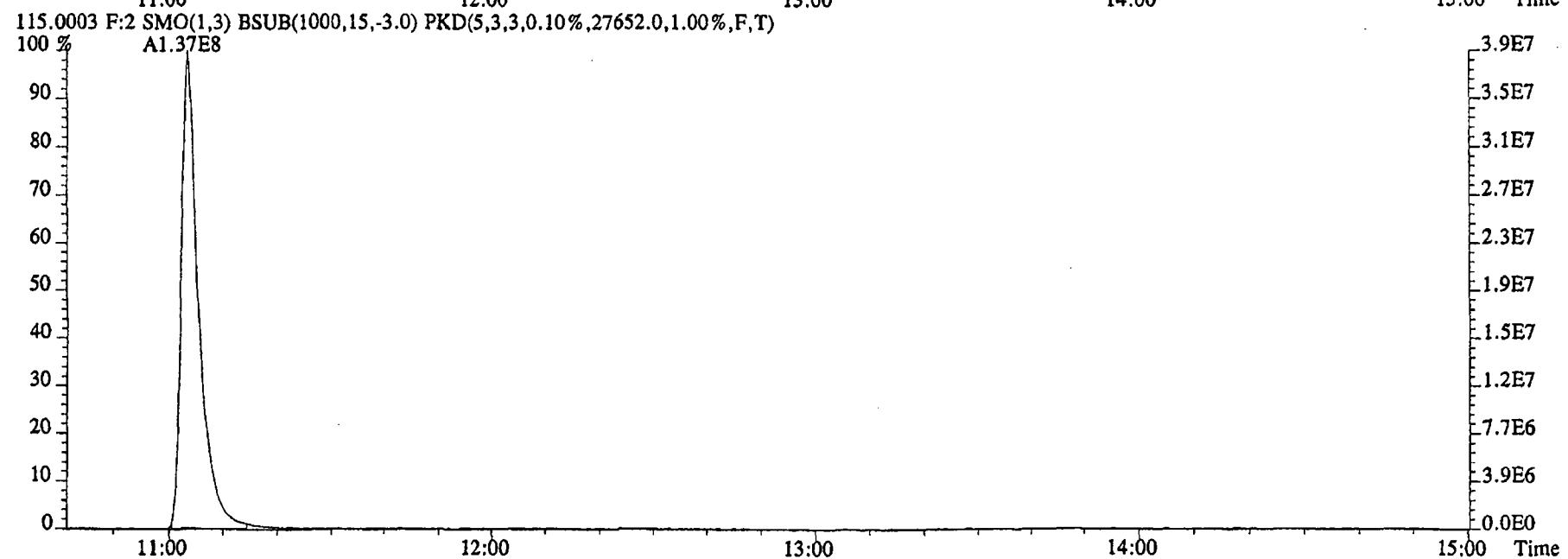
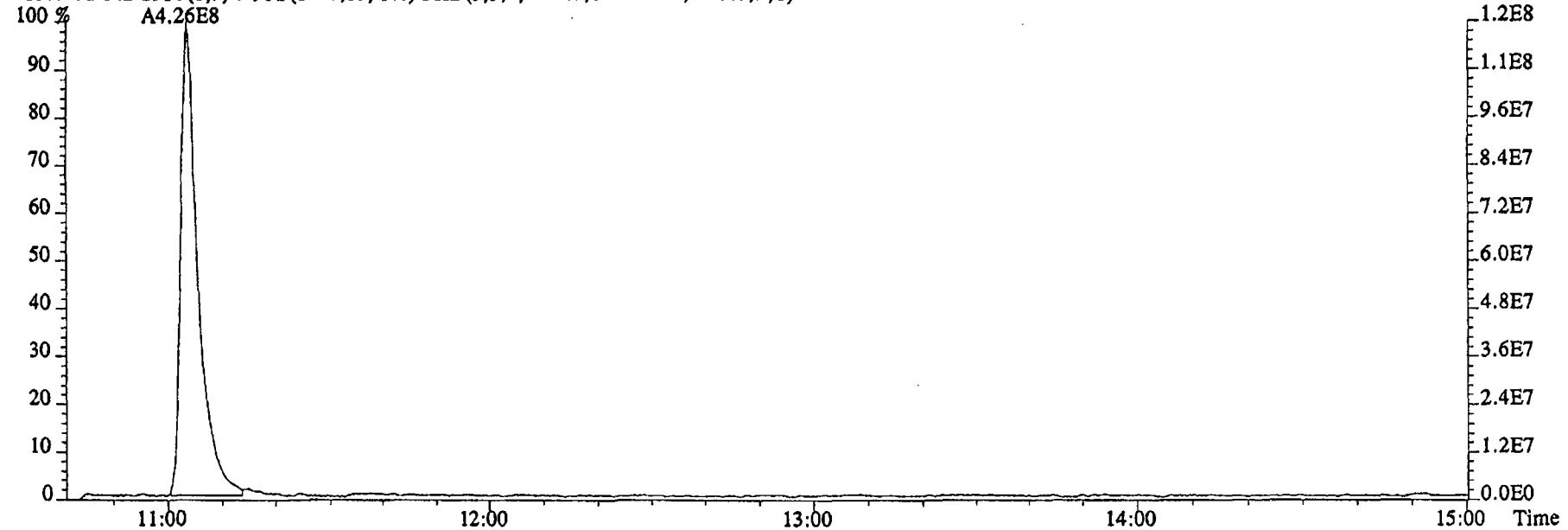
File:22DE045SP #1-474 Acq:22-DEC-2004 19:57:46 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1222 :CS3 2350-68C Exp:NDMAVOA  
74.0480 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24384.0,1.00%,F,T)



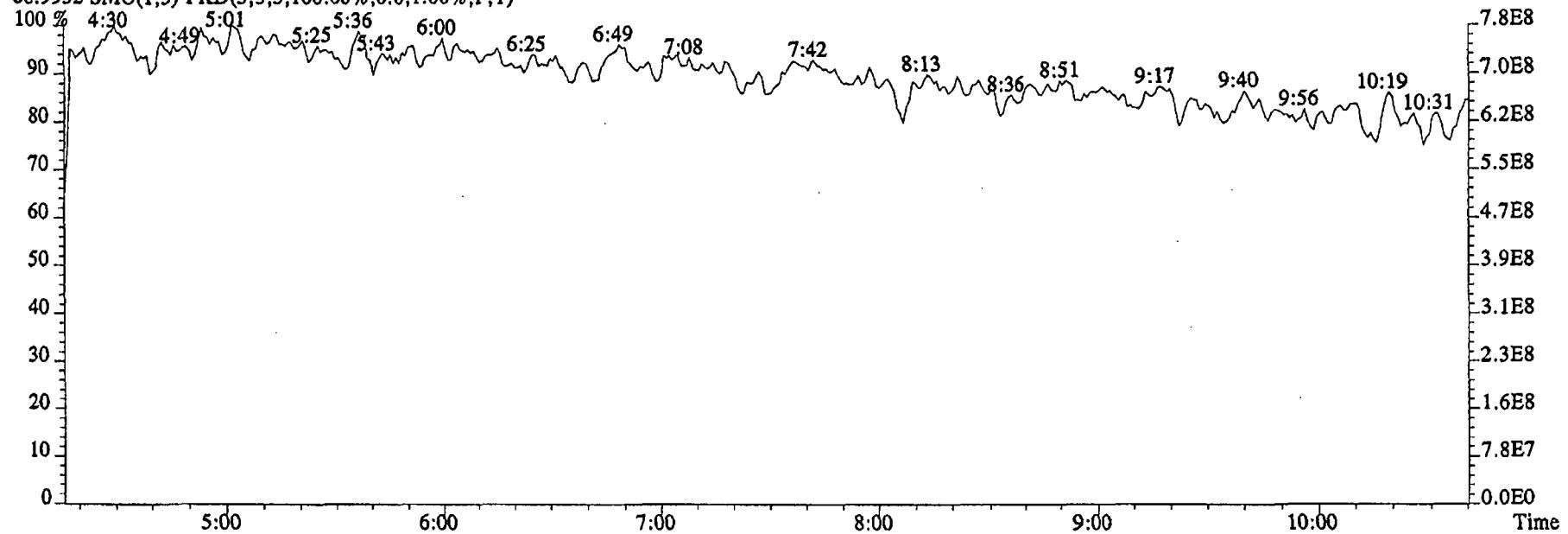
80.0857 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6132.0,1.00%,F,T)



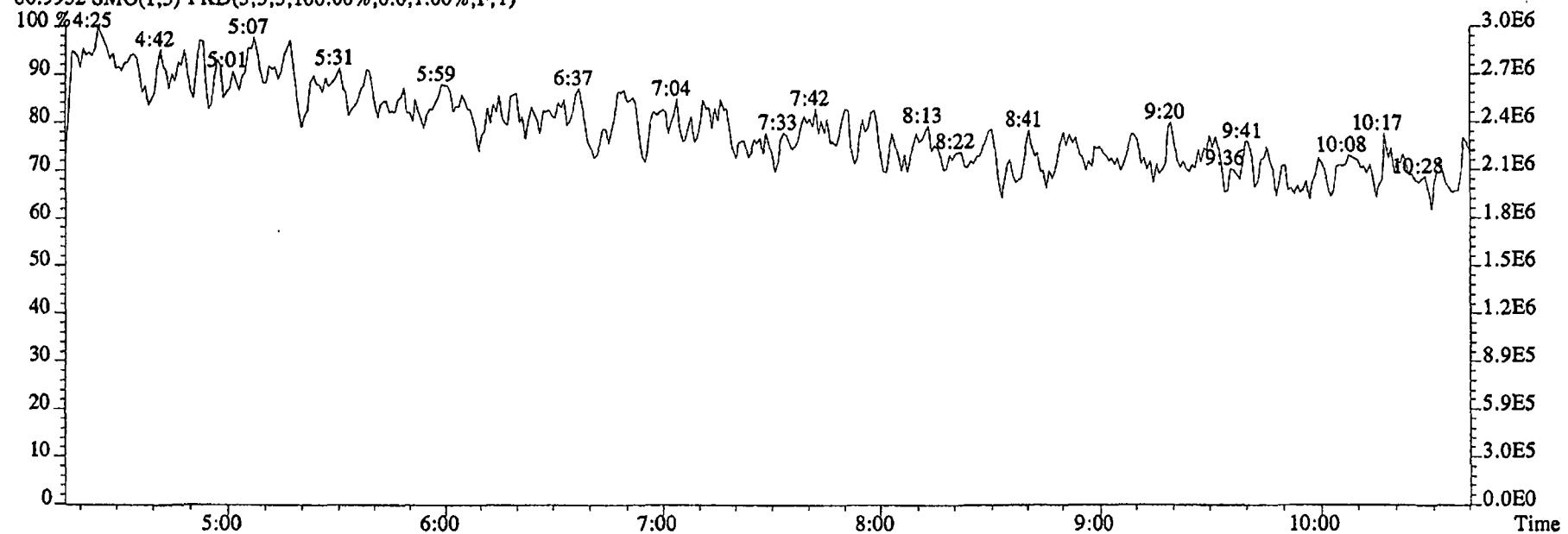
File:22DE045SP #1-603 Acq:22-DEC-2004 19:57:46 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1222 :CS3 2350-68C Exp:NDMAVOA  
113.0032 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1429016.0,1.00%,F,T)



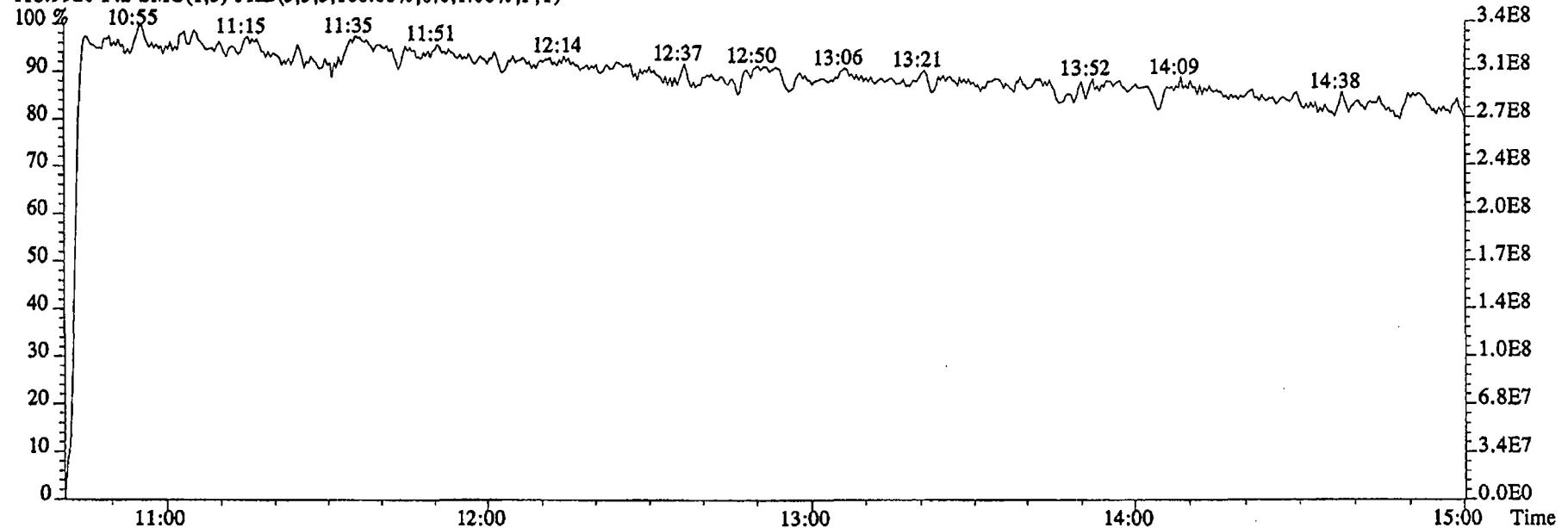
File:22DE04SSP #1-474 Acq:22-DEC-2004 19:57:46 GC El+ Voltage SIR 70SE  
Sample#1 Tex:ST1222 :CS3 2350-68C Exp:NDMAVOA  
68.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



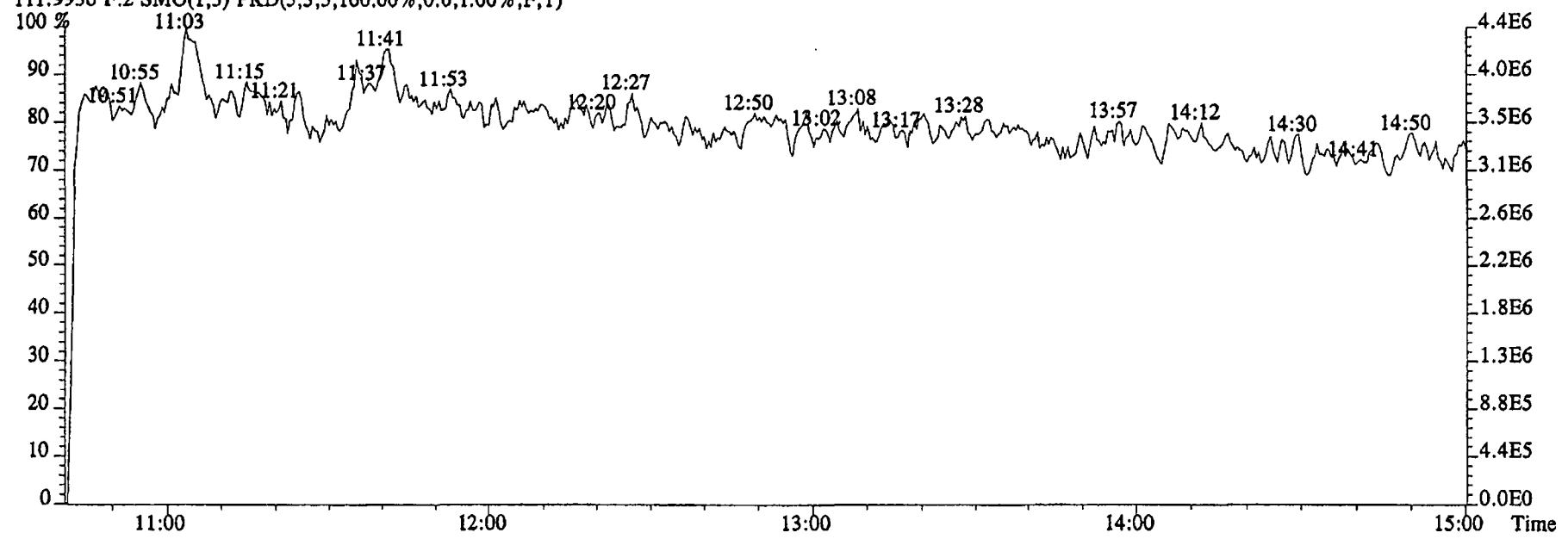
80.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



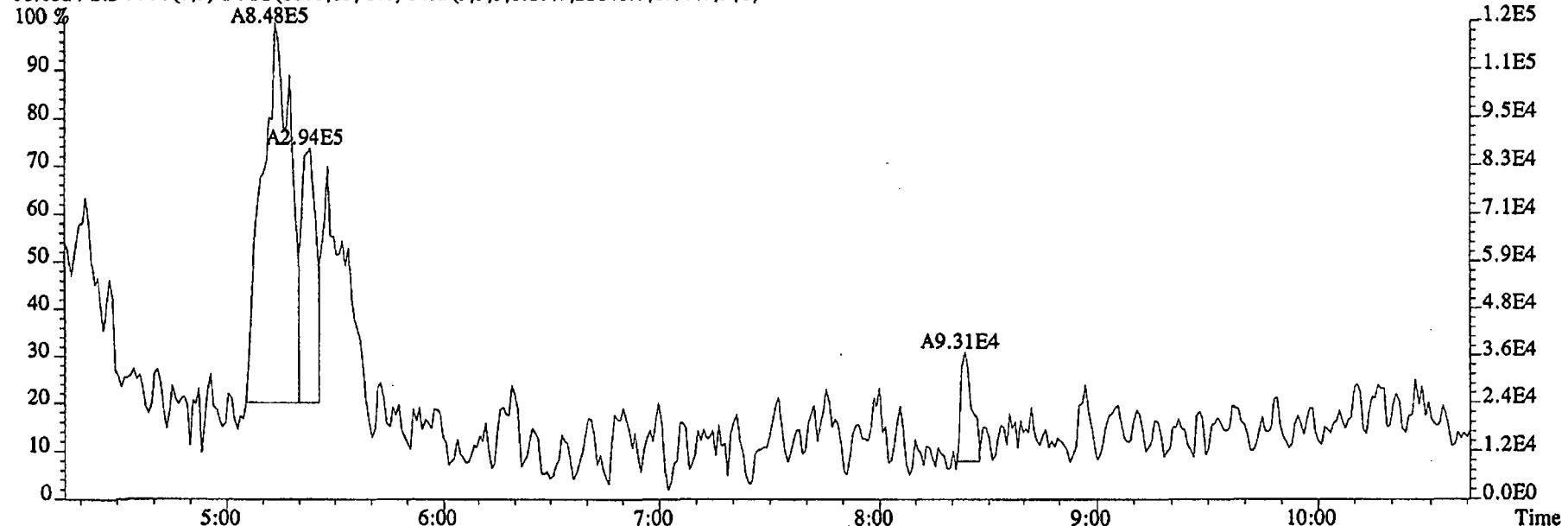
File:22DE045SP #1-603 Acq:22-DEC-2004 19:57:46 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1222 :CS3 2350-68C Exp:NDMAVOA  
118.9920 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



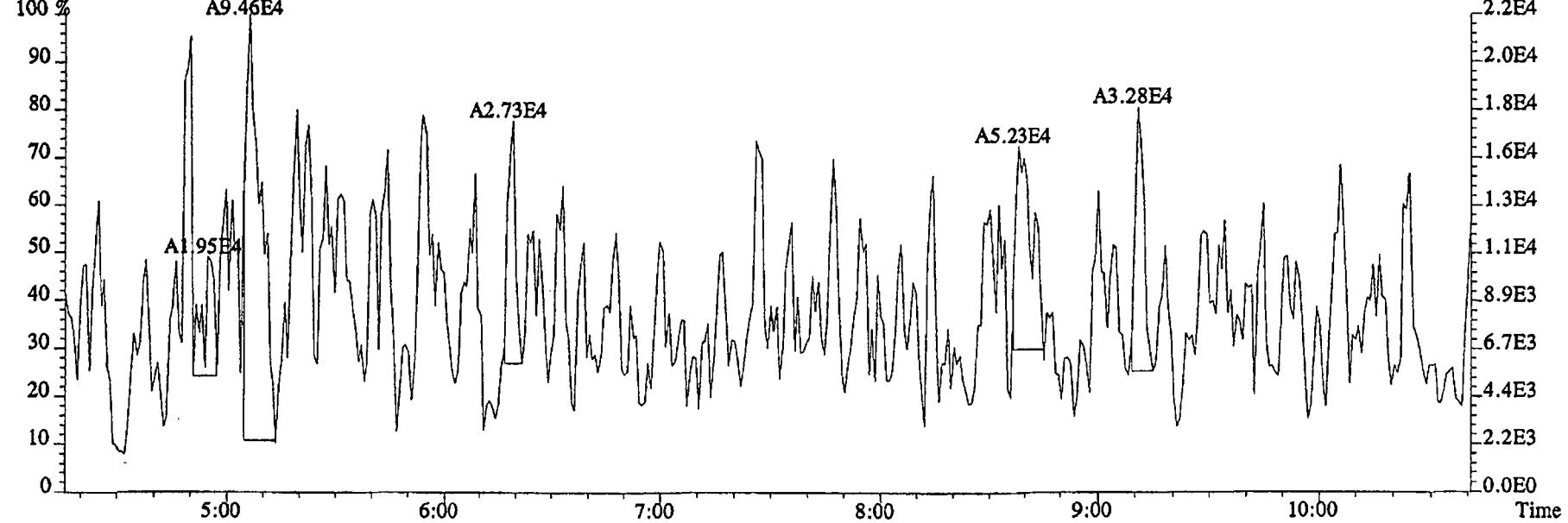
111.9936 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



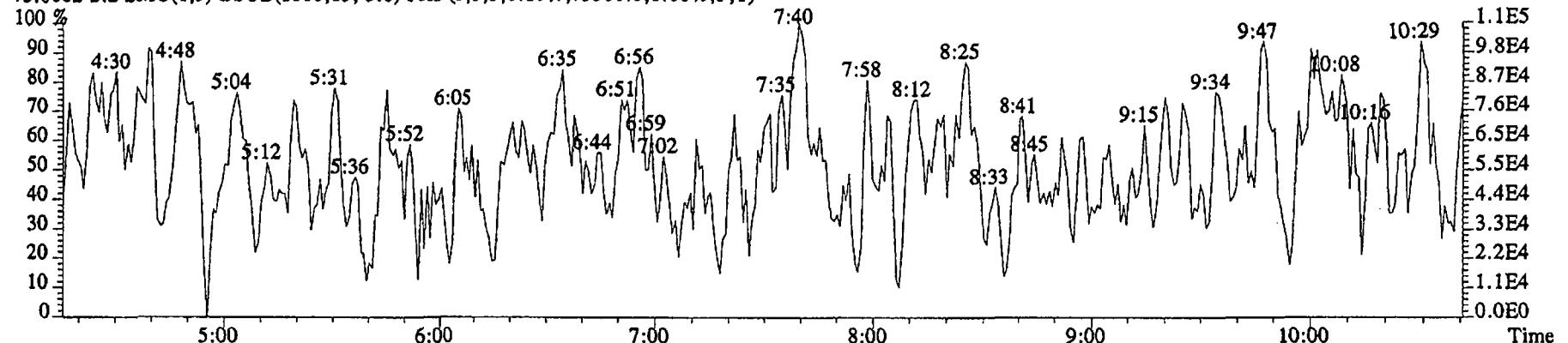
File:22DE045SP #1-475 Acq:22-DEC-2004 20:18:07 GC EI + Voltage SIR 70SE  
 Sample#2 Text:SB1222 Solvent Blank DCM Exp:NDMAVOA  
 88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22140.0,1.00%,F,T)



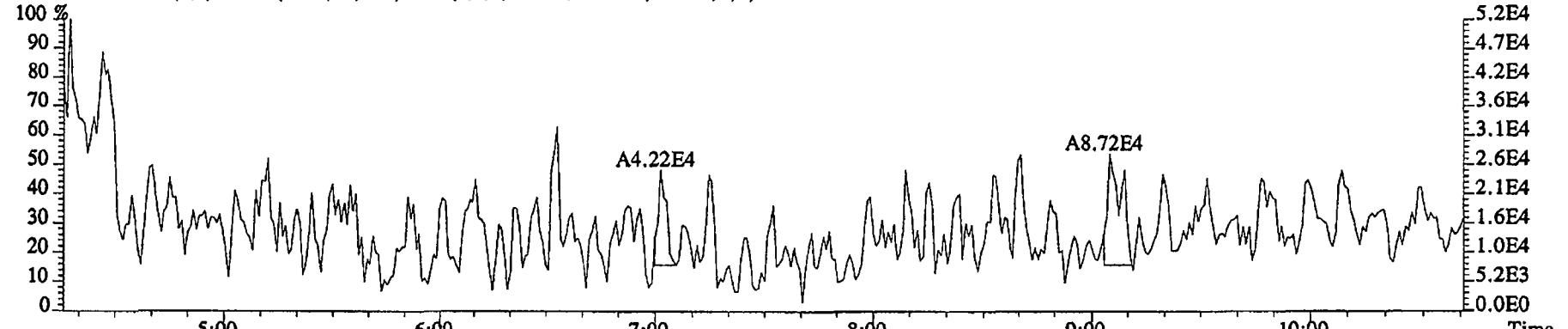
96.1026 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10220.0,1.00%,F,T)



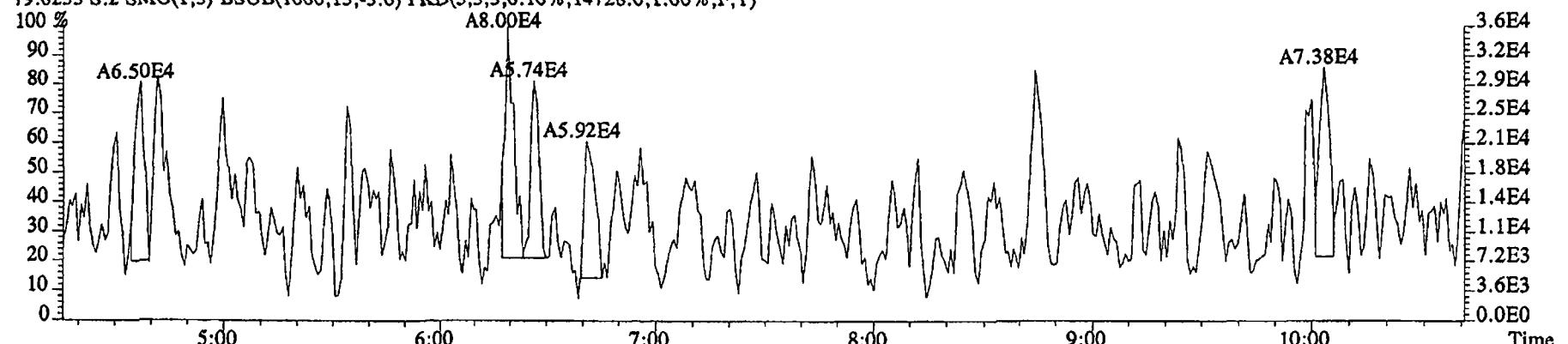
File:22DE045SP #1-475 Acq:22-DEC-2004 20:18:07 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:SB1222 :Solvent Blank DCM Exp:NDMAVOA  
 75.0002 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,73300.0,1.00%,F,T)



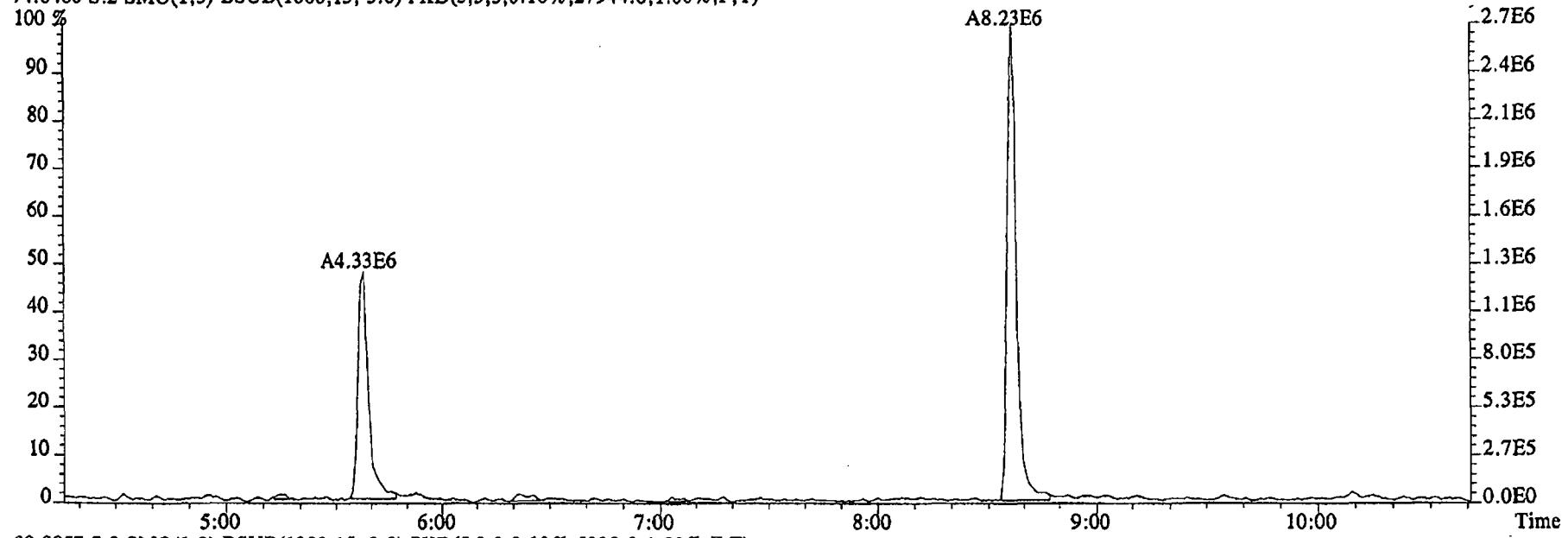
76.9972 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17348.0,1.00%,F,T)



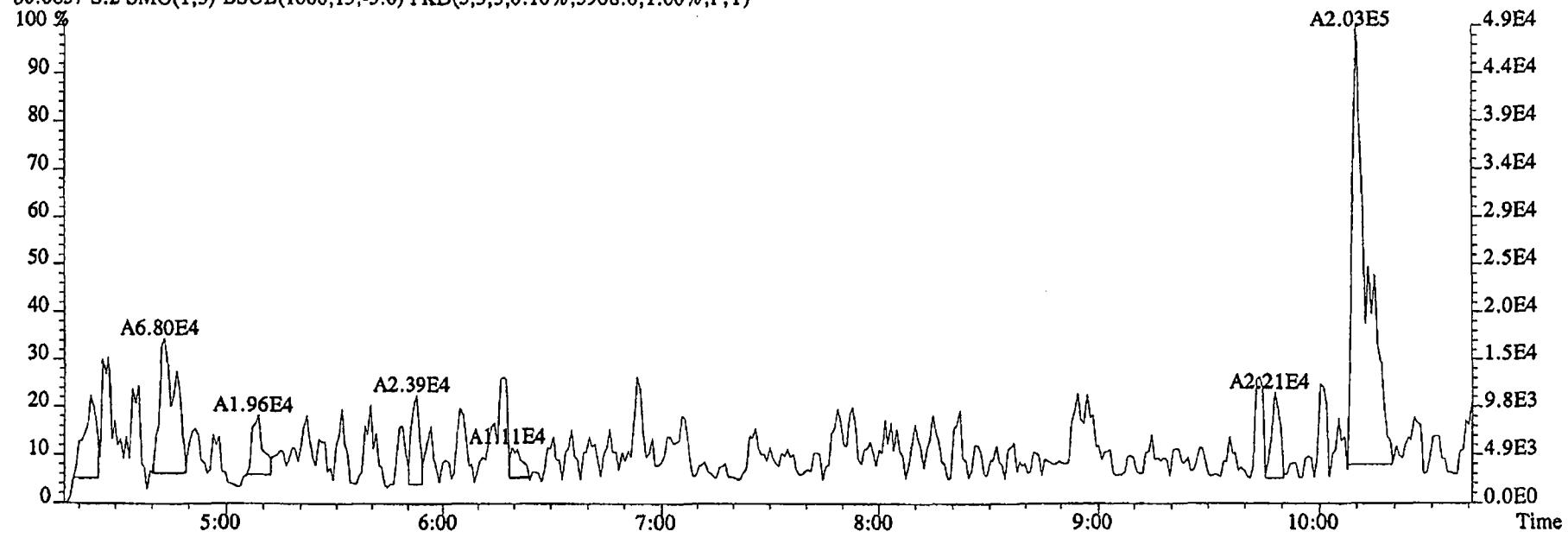
79.0253 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14728.0,1.00%,F,T)



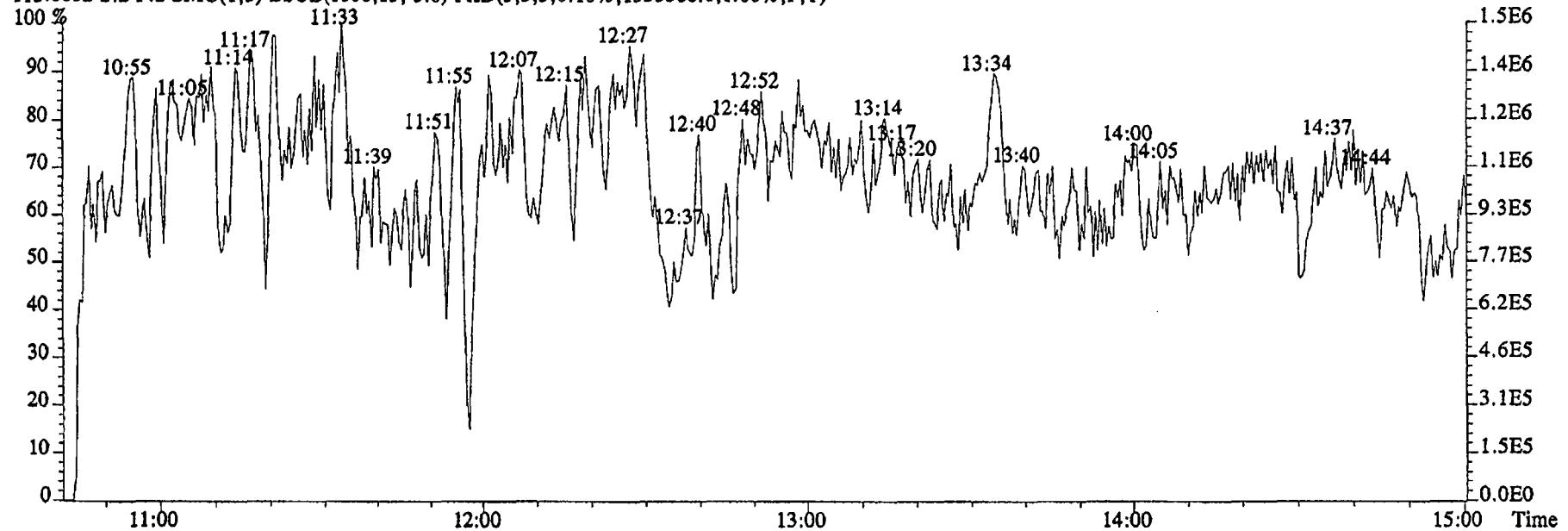
File:22DE045SP #1-475 Acq:22-DEC-2004 20:18:07 GC EI+ Voltage SIR 70SE  
Sample#2 Text:SB1222 Solvent Blank DCM Exp:NDMAVOA  
74.0480 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27944.0,1.00%,F,T)



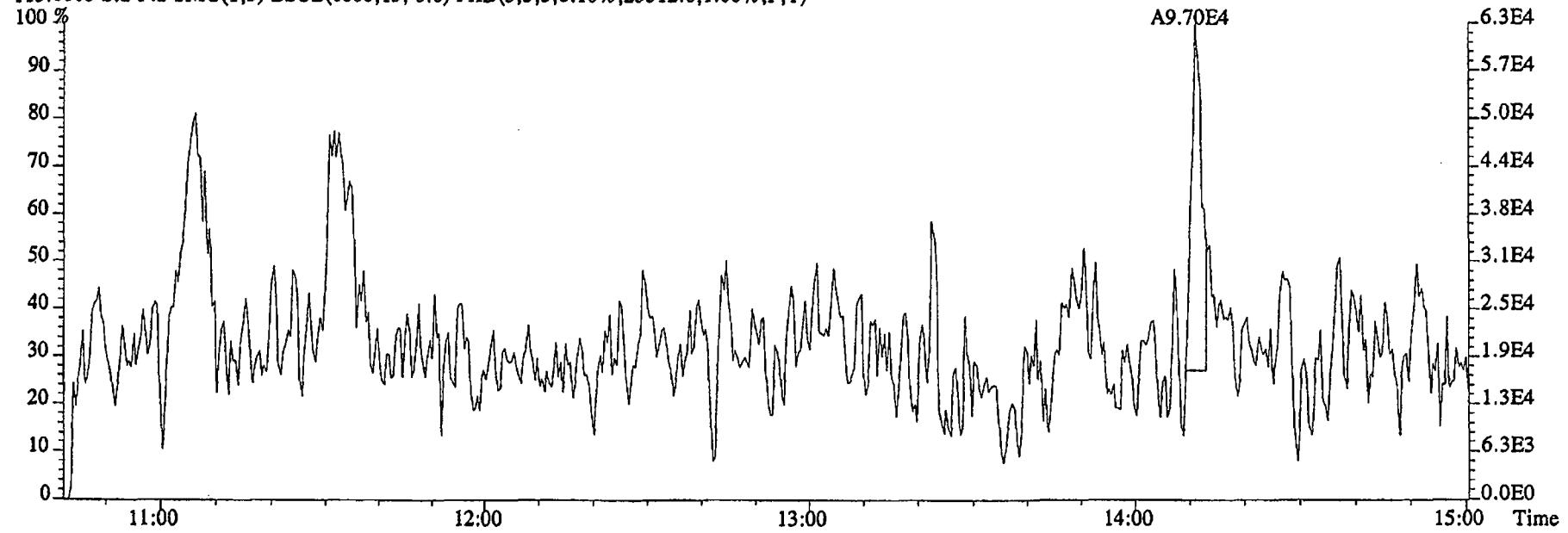
80.0857 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5908.0,1.00%,F,T)



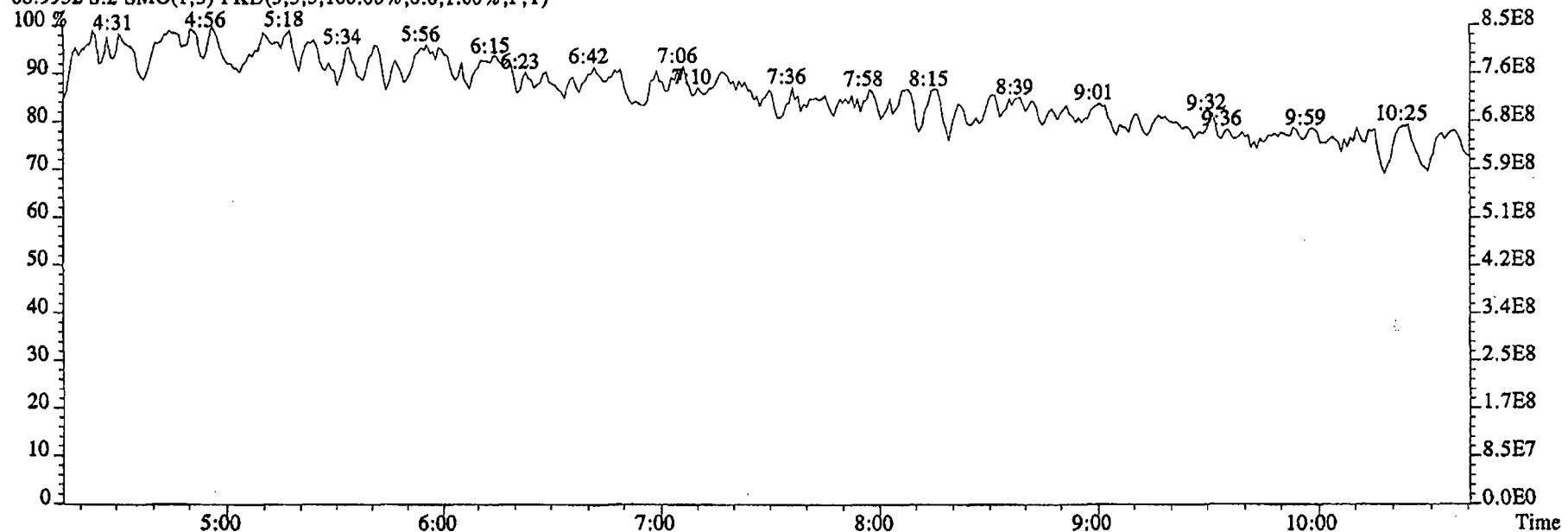
File:22DE045SP #1-602 Acq:22-DEC-2004 20:18:07 GC EI+ Voltage SIR 70SE  
Sample#2 Text:SB1222 :Solvent Blank DCM Exp:NDMAVOA  
113.0032 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1353388.0,1.00%,F,T)



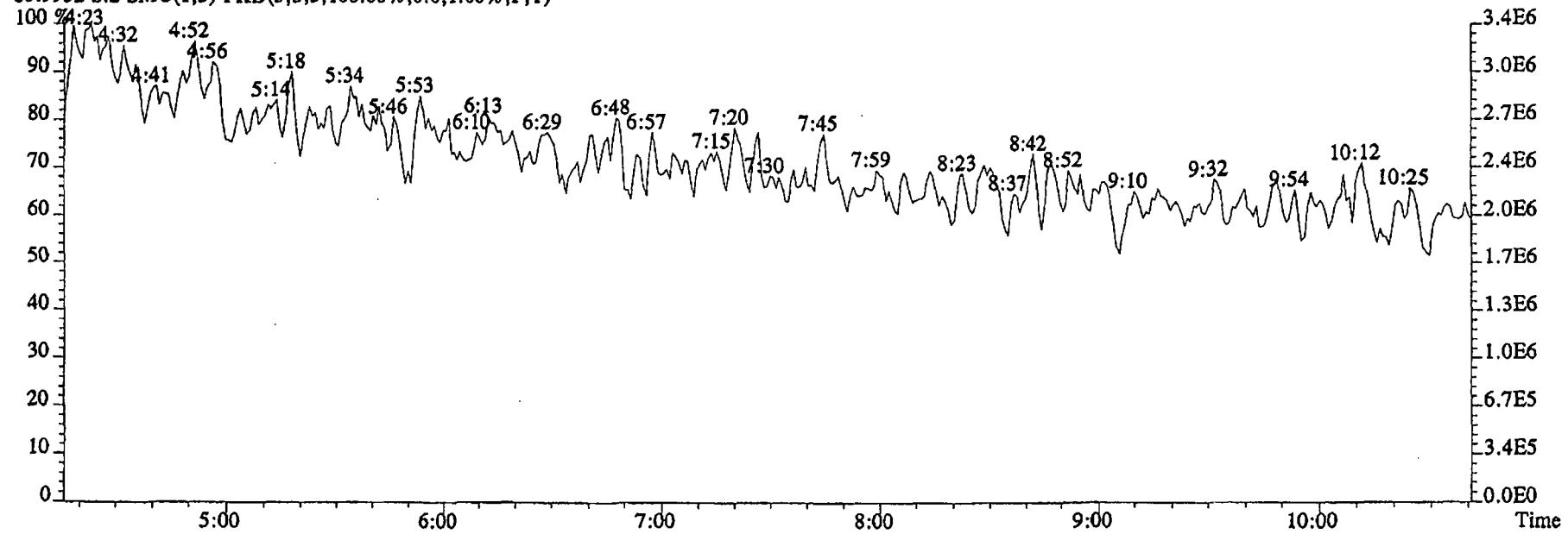
115.0003 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25512.0,1.00%,F,T)



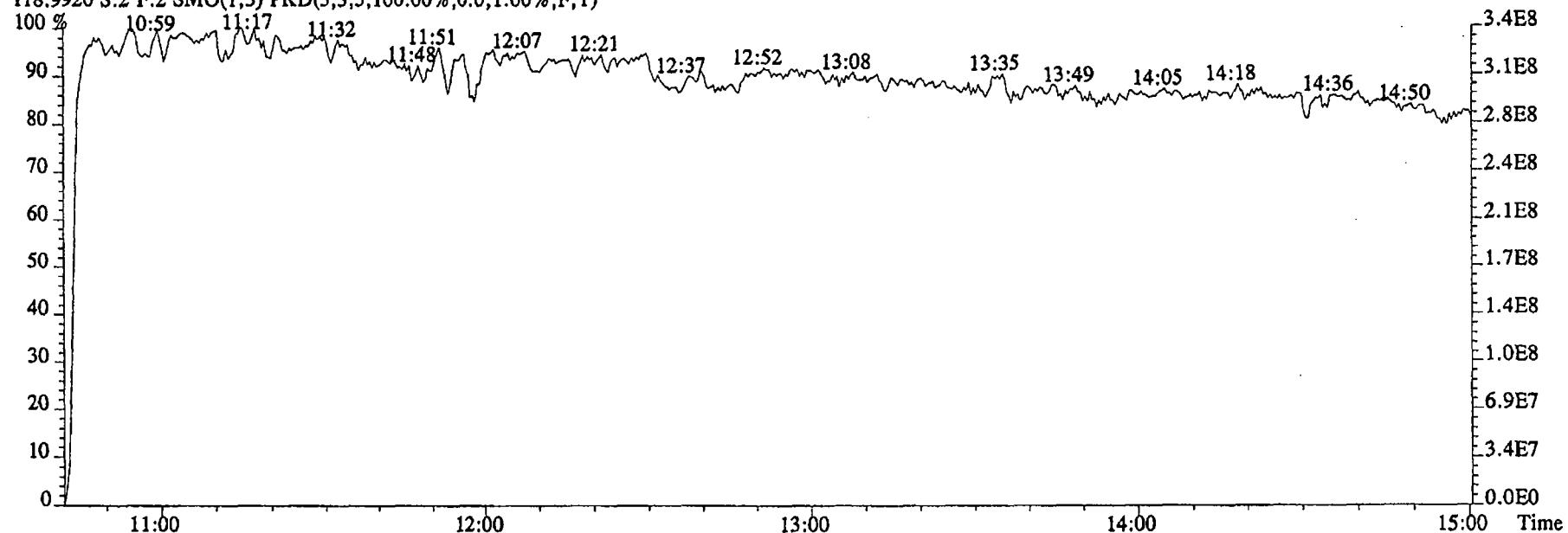
File:22DE045SP #1-475 Acq:22-DEC-2004 20:18:07 GC EI+ Voltage SIR 70SE  
Sample#2 Text:SB1222 :Solvent Blank DCM Exp:NDMAVOA  
68.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



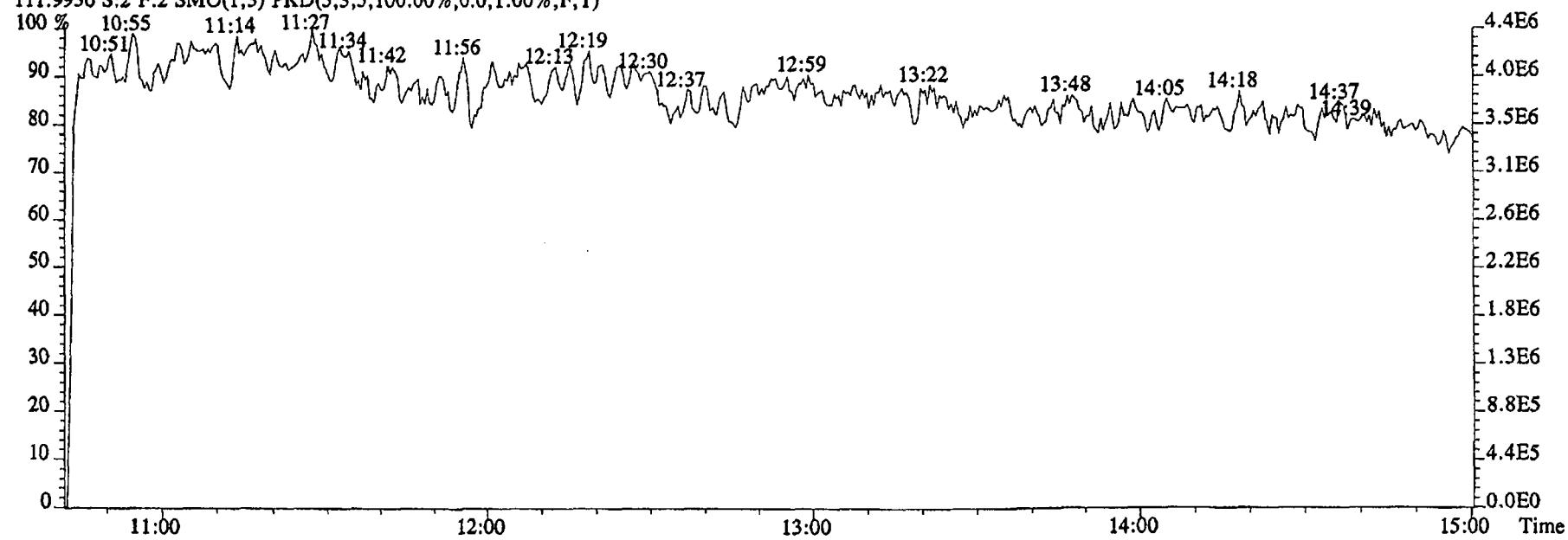
80.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:22DE045SP #1-602 Acq:22-DEC-2004 20:18:07 GC EI+ Voltage SIR 70SE  
Sample#2 Tex:SB1222 Solvent Blank DCM Exp:NDMAVOA  
118.9920 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



## **Initial Calibration**

***Includes (as applicable):***

***runlog***

***standard raw data***

***statistical summary***

***ms tune data***

Initial Calibration Checklist  
High Resolution

ICAL ID 16251216045SP

Method ID 1625

Column ID SP-2331

Instrument ID 5SP

STD ID's ST1216 & ST1216(A-D)

STD Solution 2350-68(A-E)

Analyzed By AM

Date Analyzed 12/16/04

Prepared By KAS

Date Prepared 12/17/04

Reviewed By Cerrick M

Date Reviewed 12-18-04

ANALYSIS OF ICAL	INITIATED	REVIEWED
Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	NA	NA
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA

COMMENTS:

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Method 8290: %RSD  $\leq$  20% for natives,  $\leq$  30% for labeled analytes; S/N  $\geq$  10

Method 1613A: %CV  $\leq$  35% (See Table 7, Method 1613A); S/N  $\geq$  10

Method 23: %RSD  $\leq$  values specified in Table 5, Method 23; S/N  $>$  2.5

PAH: %RSD  $\leq$  30% for natives and labeled compounds; S/N  $\geq$  10

PCB: %RSD  $\leq$  20% for natives,  $\leq$  40% for labeled compounds; S/N  $\geq$  2.5

NCASI 551: %RSD  $\leq$  20% for natives and labeled compounds;  $\geq$  5

DBD/DBF: %RSD  $\leq$  30% for natives,  $\leq$  40% for labeled analytes; S/N  $\geq$  10

Run: 16DE045SPIC<sub>1</sub> Analyte: 1625

Cal: 16251216045SP

ST1216 :CS1 2350-68A  
ST1216C :CS4 2350-68DST1216A :CS2 2350-68B  
ST1216D :CS5 2350-68E

ST1216B :CS3 2350-68C

Name	Mean	S. D.	%RSD	16DE045SP				
				S1 RRF1	S2 RRF2	S3 RRF3	S4 RRF4	S5 RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.655	0.110	16.8 %	0.59	0.60	0.76	0.79	0.54
1,4-Dioxane	1.054	0.135	12.8 %	1.07	0.90	0.96	1.09	1.25
D5-123-TriChloroPropane	2.351	0.108	4.60 %	2.53	2.35	2.28	2.25	2.35
1,2,3-TriChloroPropane	0.482	0.031	6.41 %	0.46	0.45	0.47	0.52	0.51
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	1.481	0.073	4.91 %	1.50	1.43	1.38	1.52	1.57
NDMA	1.374	0.065	4.74 %	1.29	1.32	1.39	1.44	1.42
2-Chloropyridine	-	-	- %	-	-	-	-	-

Run #1   Filename 16DE045SP   S: 1   I: 1  
 Acquired: 16-DEC-04 18:38:32                          Processed: 16-DEC-04 20:22:18  
 Run: 16DE045SPIC Analyte: 1625                          Cal: 16251216045SP  
 Comments:

Sample text: ST1216 :CS1 2350-68A

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	96609900		11:05	-	200.00	n
D8-1,4-Dioxane	286004000		5:07	0.59	1000.00	n
1,4-Dioxane	614779		5:07	1.07	2.00	n
D5-123-TriChloroPropane	122172000		10:00	2.53	100.00	n
1,2,3-TriChloroPropane	1130890		10:04	0.46	2.00	n
1,2,3-TriChloroPropane	3095370		10:04	-	2.00	n
D6-NDMA	72477700		10:11	1.50	100.00	n
NDMA	1869940		10:11	1.29	2.00	n
2-Chloropyridine	311525000		11:05	-	200.00	n

Run #2   Filename 16DE045SP   S: 2

I: 1

Acquired: 16-DEC-04   18:58:44

Processed: 16-DEC-04   20:22:18

Run: 16DE045SPIC Analyte: 1625

Cal: 16251216045SP

Comments:

Sample text: ST1216A :CS2 2350-68B

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	85649100		11:04	-	200.00	n
D8-1,4-Dioxane	256238000		5:07	0.60	1000.00	n
1,4-Dioxane	2296160		5:07	0.90	10.00	n
D5-123-TriChloroPropane	100553000		10:01	2.35	100.00	n
1,2,3-TriChloroPropane	4493240		10:04	0.45	10.00	n
1,2,3-TriChloroPropane	12621800		10:04	-	10.00	n
D6-NDMA	61392400		10:11	1.43	100.00	n
NDMA	8117350		10:10	1.32	10.00	n
2-Chloropyridine	267984000		11:04	-	200.00	n

Run #3   Filename 16DE045SP   S: 3   I: 1  
 Acquired: 16-DEC-04 19:19:02   Processed: 16-DEC-04 20:22:18  
 Run: 16DE045SPIC Analyte: 1625   Cal: 16251216045SP  
 Comments:  
 Sample text: ST1216B :CS3 2350-68C

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	74671200		11:04	-	200.00	n
D8-1,4-Dioxane	283007000		5:06	0.76	1000.00	n
1,4-Dioxane	13638000		5:06	0.96	50.00	n
D5-123-TriChloroPropane	85135300		10:00	2.28	100.00	n
1,2,3-TriChloroPropane	20011300		10:03	0.47	50.00	n
1,2,3-TriChloroPropane	61347200		10:03	-	50.00	n
D6-NDMA	51704300		10:11	1.38	100.00	n
NDMA	36015900		10:10	1.39	50.00	n
2-Chloropyridine	234512000		11:04	-	200.00	n

Run #4   Filename 16DE045SP   S: 4   I: 1  
 Acquired: 16-DEC-04 19:39:23   Processed: 16-DEC-04 20:22:19  
 Run: 16DE045SPIC<sub>1</sub> Analyte: 1625   Cal: 16251216045SP  
 Comments:  
 Sample text: ST1216C :CS4 2350-68D

Name	Resp	RA	RT	RRF	Mod?
2-Chloropyridine	92313400		11:04	-	200.00 n
D8-1,4-Dioxane	363901000		5:06	0.79	1000.00 n
1,4-Dioxane	79125200		5:06	1.09	200.00 n
D5-123-TriChloroPropane	103880000		10:00	2.25	100.00 n
1,2,3-TriChloroPropane	107415000		10:03	0.52	200.00 n
1,2,3-TriChloroPropane	320743000		10:03	-	200.00 n
D6-NDMA	69959300		10:10	1.52	100.00 n
NDMA	201702000		10:10	1.44	200.00 n
2-Chloropyridine	299459000		11:04	-	200.00 n

Run #5   Filename 16DE045SP   S: 5   I: 1  
 Acquired: 16-DEC-04 19:59:44   Processed: 16-DEC-04 20:22:19  
 Run: 16DE045SPIC Analyte: 1625   Cal: 16251216045SP  
 Comments:  
 Sample text: ST1216D :CS5 2350-68E

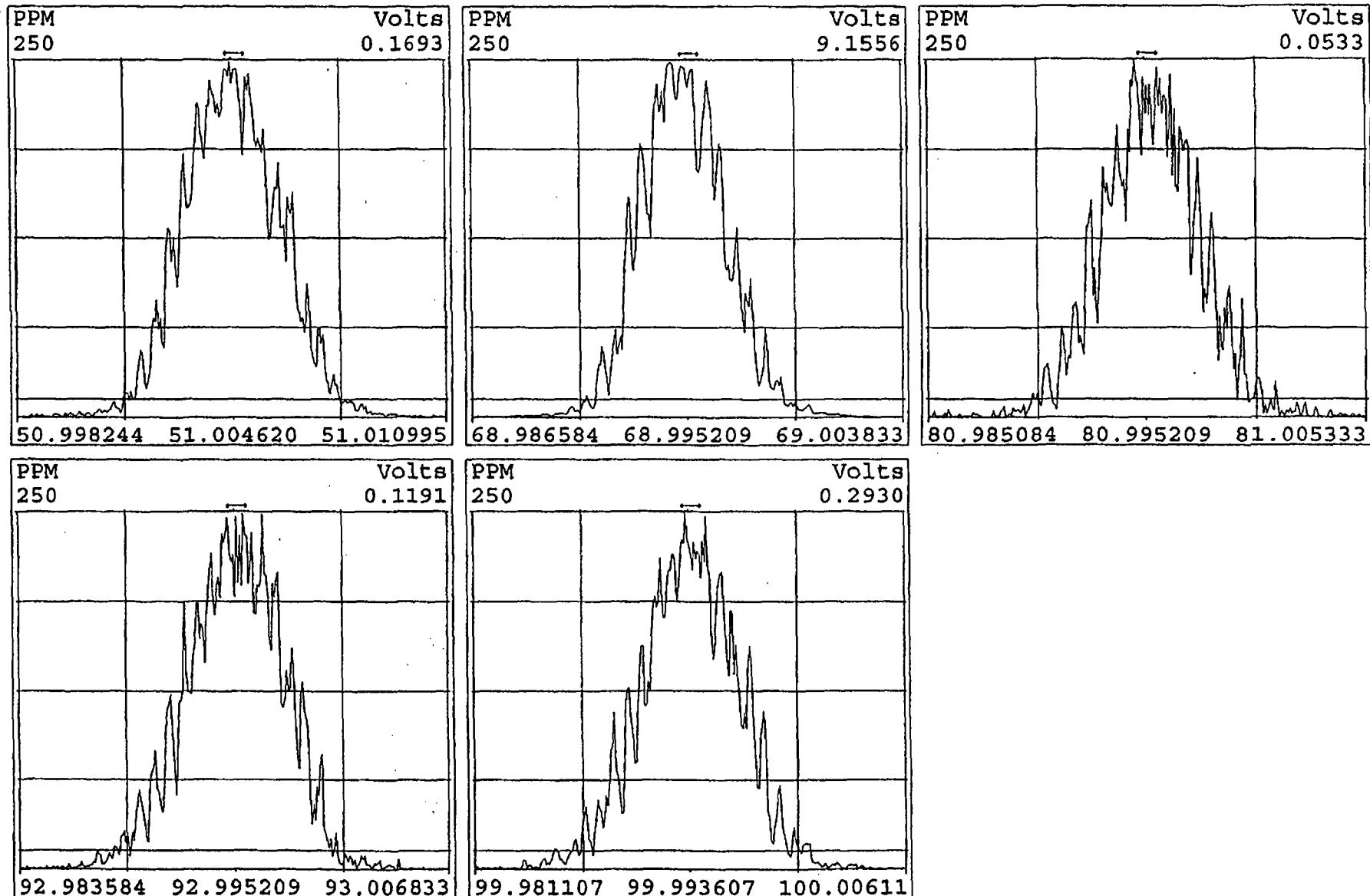
Name	Resp	RA	RT	RRF	Mod?
2-Chloropyridine	1411158000		11:03	-	200.00 n
D8-1,4-Dioxane	381356000		5:06	0.54	1000.00 n
1,4-Dioxane	476785000		5:06	1.25	1000.00 n
D5-123-TriChloroPropane	165660000		9:59	2.35	100.00 n
1,2,3-TriChloroPropane	846719000		10:03	0.51	1000.00 n
1,2,3-TriChloroPropane	2510210000		10:03	-	1000.00 n
D6-NDMA	110886000		10:10	1.57	100.00 n
NDMA	1576780000		10:10	1.42	1000.00 n
2-Chloropyridine	453774000		11:03	-	200.00 n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
16DE045SP	1	ST1216	CS1 2350-68A				1.000	
16DE045SP	2	ST1216A	CS2 2350-68B				1.000	
16DE045SP	3	ST1216B	CS3 2350-68C				1.000	
16DE045SP	4	ST1216C	CS4 2350-68D				1.000	
16DE045SP	5	ST1216D	CS5 2350-68E				1.000	
16DE045SP	6	SB1216	Solvent Blank DCM				1.000	
16DE045SP	7	ST1216E	CS3 2350-68C				1.000	
16DE045SP	8	SB1216A	Solvent Blank DCM				1.000	
16DE045SP	9	GX4KD-1-AA	G4L040149-2	500	1625/WATER	VS54	1.052	L
16DE045SP	10	GX4KE-1-AA	G4L020149-3	500	1625/WATER		0.977	L
16DE045SP	11	GX4KF-1-AA	G4L020149-4	500	1625/WATER		0.982	L
16DE045SP	12	GX4KG-1-AA	G4L020149-5	500	1625/WATER		1.006	L
16DE045SP	13	G0XDP-1-AA	G4L080479-MB	500	1625/WATER		1.000	L
16DE045SP	14	G0XDP-1-AC	G4L080479-LCS	500	1625/WATER		1.000	L
16DE045SP	15	G0K68-1-AC	G4L080479-1	500	1625/WATER		0.943	L
16DE045SP	16	G0K69-1-AC	G4L080479-2	500	1625/WATER		0.974	L
16DE045SP	17	G0K7A-1-AC	G4L080479-3	500	1625/WATER		0.968	L
16DE045SP	18	G0K7D-1-AC	G4L080479-4	500	1625/WATER		0.928	L
16DE045SP	19	G0K7E-1-AC	G4L080479-5	500	1625/WATER		0.928	L
16DE045SP	20	G0K7F-1-AC	G4L080479-6	500	1625/WATER		0.936	L
16DE045SP	21	G0HM6-1-AE	E4L080175-4	500	1625/WATER		0.965	L
16DE045SP	22	G0HM7-1-AE	E4L080175-5	500	1625/WATER		0.995	L
16DE045SP	23	G0PC2-1-AC	G4L090480-1	500	1625/WATER		0.966	L
16DE045SP	24	G0PC4-1-AC	G4L090480-2	500	1625/WATER		0.986	L
16DE045SP	25	G0PC5-1-AC	G4L090480-3	500	1625/WATER		0.961	L
16DE045SP	26	G0MLW-1-AA	G4L090264-1	500	1625/WATER		0.966	L
16DE045SP	27	G0PDJ-1-AA	G4L090484-1	500	1625/WATER		0.962	L
16DE045SP	28	SB1216B	Solvent Blank DCM				1.000	
16DE045SP	29	ST1216F	CS3 2350-68C				1.000	
16DE045SP	30	SB1216C	Solvent Blank DCM				1.000	
16DE045SP	31	G05QJ-1-AAB	E4L090217-1MB	500	1625/WATER	VS55	1.000	L
16DE045SP	32	G05QJ-1-ACC	E4L090217-1LCS	500	1625/WATER		1.000	L
16DE045SP	33	G05QJ-1-ADL	E4L090217-1DCS	500	1625/WATER		1.000	L
16DE045SP	34	G0L86-1-AA	E4L090217-1	500	1625/WATER		0.979	L
16DE045SP	35	G0L9A-1-AA	E4L090217-2	500	1625/WATER		0.980	L
16DE045SP	36	G0L9J-1-AE	E4L090217-4	500	1625/WATER		0.974	L
16DE045SP	37	G0L93-1-AE	E4L090217-5	500	1625/WATER		0.972	L
16DE045SP	38	G0L95-1-AE	E4L090217-6	500	1625/WATER		0.984	L
16DE045SP	39	G0L99-1-AE	E4L090217-8	500	1625/WATER		0.987	L
16DE045SP	40	G0MAA-1-AE	E4L090217-9	500	1625/WATER		0.973	L
16DE045SP	41	G0MAF-1-AE	E4L090217-10	500	1625/WATER		0.988	L
16DE045SP	42	G0XAD-1-AC	G4L130173-26	500	1625/WATER		0.988	L
16DE045SP	43	G0XAG-1-AC	G4L130173-27	500	1625/WATER		0.987	L
16DE045SP	44	G0R1N-1-AC	G4L100385-1	500	1625/WATER		0.947	L
16DE045SP	45	G0R1W-1-AC	G4L100385-2	500	1625/WATER		0.990	L
16DE045SP	46	G0R10-1-AC	G4L100385-3	500	1625/WATER		0.986	L
16DE045SP	47	G0R12-1-AC	G4L100385-4	500	1625/WATER		0.953	L
16DE045SP	48	G0R14-1-AA	G4L100385-5	500	1625/WATER		0.972	L
16DE045SP	49	SB1216D	Solvent Blank DCM				1.000	
16DE045SP	50	SB1216E	Solvent Blank DCM				1.000	
16DE045SP	51	ST1216G	CS3 2350-68C				1.000	
16DE045SP	52	SB1216F	Solvent Blank DCM				1.000	
16DE045SP	53	G04X9-1-AAB	G4L130173-1MB	500	1625/SOLID	VS55	10.000	g

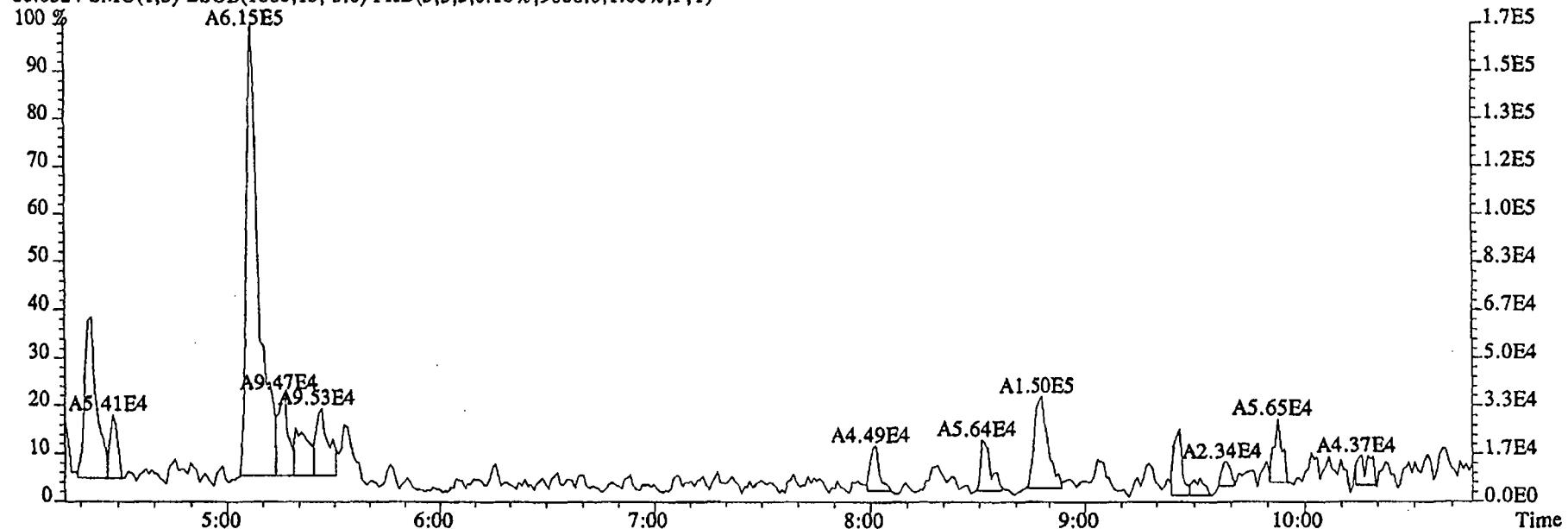
16DE045SP	54	G04X9-1-ACC	G4L130173-1LCS	500	1625/SOLID	10.000 g
16DE045SP	55	G0W7T-1-AC	G4L130173-1	500	1625/SOLID	10.000 g
16DE045SP	56	G0W7X-1-AC	G4L130173-2	500	1625/SOLID	10.000 g
- 16DE045SP	57	G0W70-1-AC	G4L130173-3	500	1625/SOLID	10.000 g
. 16DE045SP	58	G0W74-1-AC	G4L130173-4	500	1625/SOLID	10.000 g
16DE045SP	59	G0W77-1-AC	G4L130173-5	500	1625/SOLID	10.000 g
16DE045SP	60	G0W77-1-AFS	G4L130173-5MS	500	1625/SOLID	10.000 g
16DE045SP	61	G0W77-1-AGD	G4L130173-5SD	500	1625/SOLID	10.000 g
16DE045SP	62	G0W79-1-AD	G4L130173-6	500	1625/SOLID	10.000 g
16DE045SP	63	G0W8D-1-AD	G4L130173-7	500	1625/SOLID	10.000 g
16DE045SP	64	G0W8F-1-AD	G4L130173-8	500	1625/SOLID	10.000 g
16DE045SP	65	G0W8J-1-AD	G4L130173-9	500	1625/SOLID	10.000 g
16DE045SP	66	G0W8K-1-AD	G4L130173-10	500	1625/SOLID	10.000 g
16DE045SP	67	G0W8N-1-AD	G4L130173-11	500	1625/SOLID	10.000 g
16DE045SP	68	G0W8R-1-AD	G4L130173-12	500	1625/SOLID	10.000 g
16DE045SP	69	G0W8W-1-AD	G4L130173-13	500	1625/SOLID	10.000 g
16DE045SP	70	G0W82-1-AD	G4L130173-14	500	1625/SOLID	10.000 g
16DE045SP	71	G0W84-1-AD	G4L130173-15	500	1625/SOLID	10.000 g
16DE045SP	72		G4L130173-16	500	1625/SOLID	10.000 g
16DE045SP	73	G0W9D-1-AD	G4L130173-17	500	1625/SOLID	10.000 g
16DE045SP	74	G0W9G-1-AD	G4L130173-18	500	1625/SOLID	10.000 g
16DE045SP	75	G0W9H-1-AD	G4L130173-19	500	1625/SOLID	10.000 g
16DE045SP	76	G0407-1-ACC	G4L130173-20LCS	500	1625/SOLID	10.000 g
16DE045SP	77	G0407-1-AAB	G4L130173-20MB	500	1625/SOLID	10.000 g
16DE045SP	78	G0W9N-1-AD	G4L130173-20	500	1625/SOLID	10.000 g
16DE045SP	79	G0W9N-1-AJS	G4L130173-20MS	500	1625/SOLID	10.000 g
16DE045SP	80	G0W9N-1-AKD	G4L130173-20SD	500	1625/SOLID	10.000 g
16DE045SP	81	G0W9Q-1-AD	G4L130173-21	500	1625/SOLID	10.000 g
16DE045SP	82	G0W9W-1-AD	G4L130173-22	500	1625/SOLID	10.000 g
16DE045SP	83	G0W93-1-AD	G4L130173-23	500	1625/SOLID	10.000 g
16DE045SP	84	G0W95-1-AD	G4L130173-24	500	1625/SOLID	10.000 g
16DE045SP	85	G0W98-1-CD	G4L130173-25	500	1625/SOLID	10.000 g
16DE045SP	86	SB1216G	Solvent Blank DCM			1.000
16DE045SP	87	SB1216H	Solvent Blank DCM			1.000
16DE045SP	88	ST1216H	CS3 2350-68C			1.000
16DE045SP	89					1.000
16DE045SP	90					1.000
16DE045SP	91					1.000
16DE045SP	92					1.000

AM 12-16-04

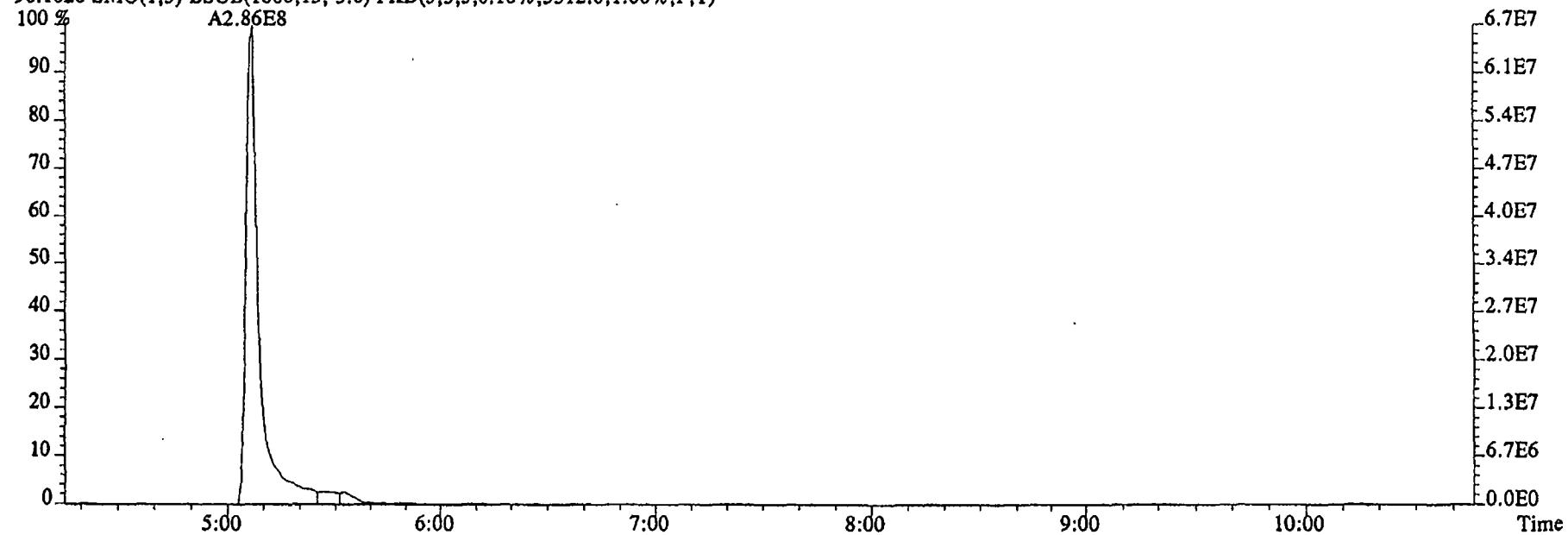
Peak Locate Examination:16-DEC-2004:18:36 File:16DE045SP  
Experiment:NDMAVOA Function:1 Reference:PFK



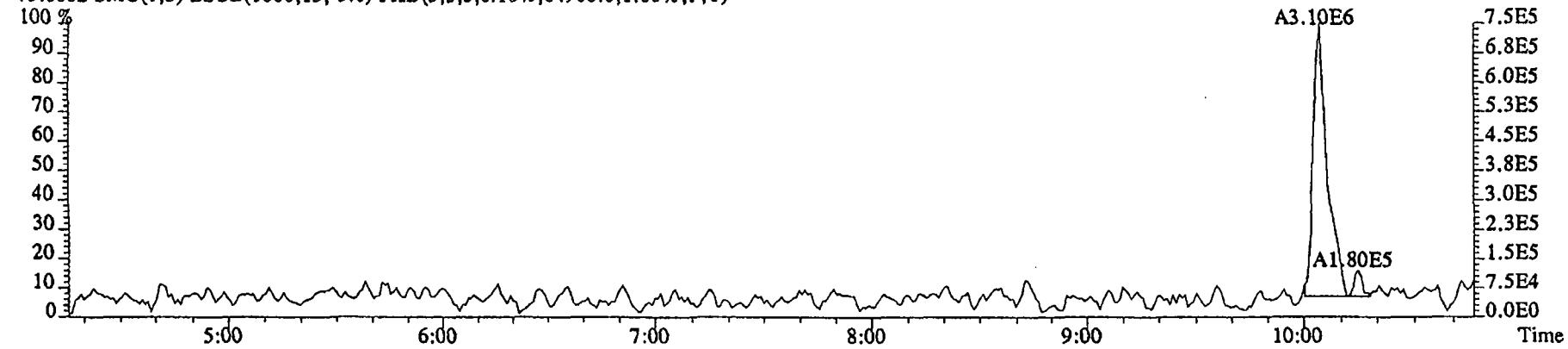
File:16DE045SP #1-481 Acq:16-DEC-2004 18:38:32 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:ST1216 :CS1 2350-68A Exp:NDMAVOA  
 88.0524 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9008.0,1.00%,F,T)



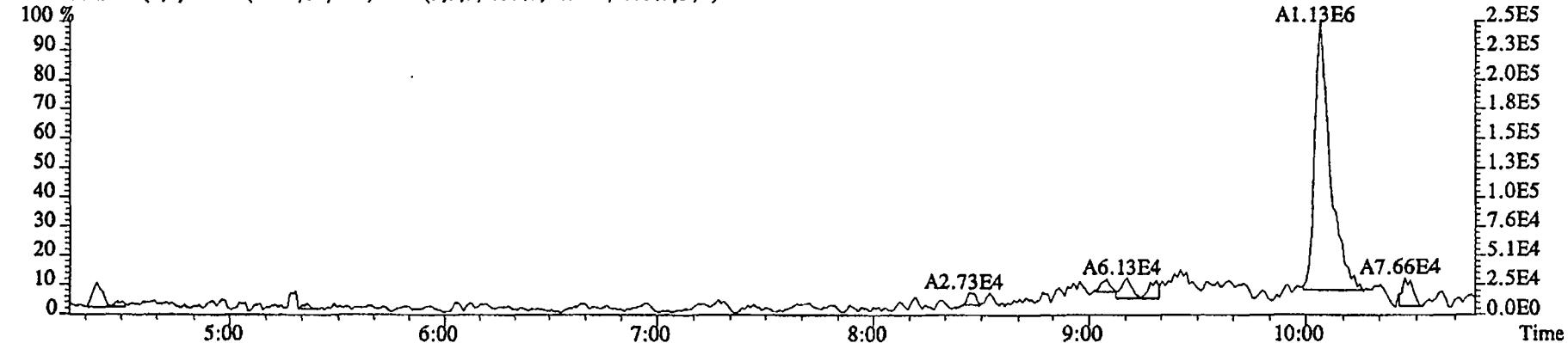
96.1026 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5312.0,1.00%,F,T)



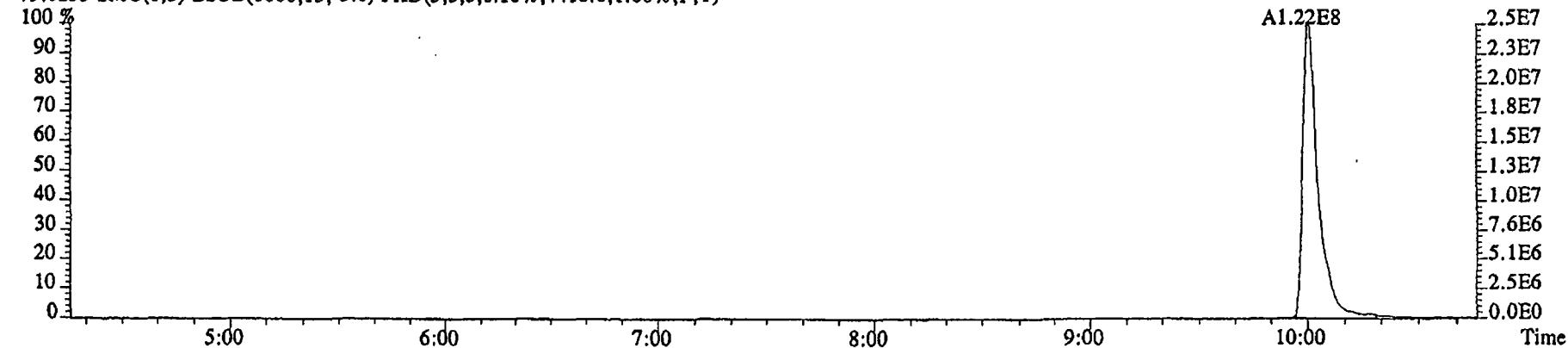
File:16DE045SP #1-481 Acq:16-DEC-2004 18:38:32 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:ST1216 :CS1 2350-68A Exp:NDMAVOA  
 75.0002 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64900.0,1.00%,F,T)



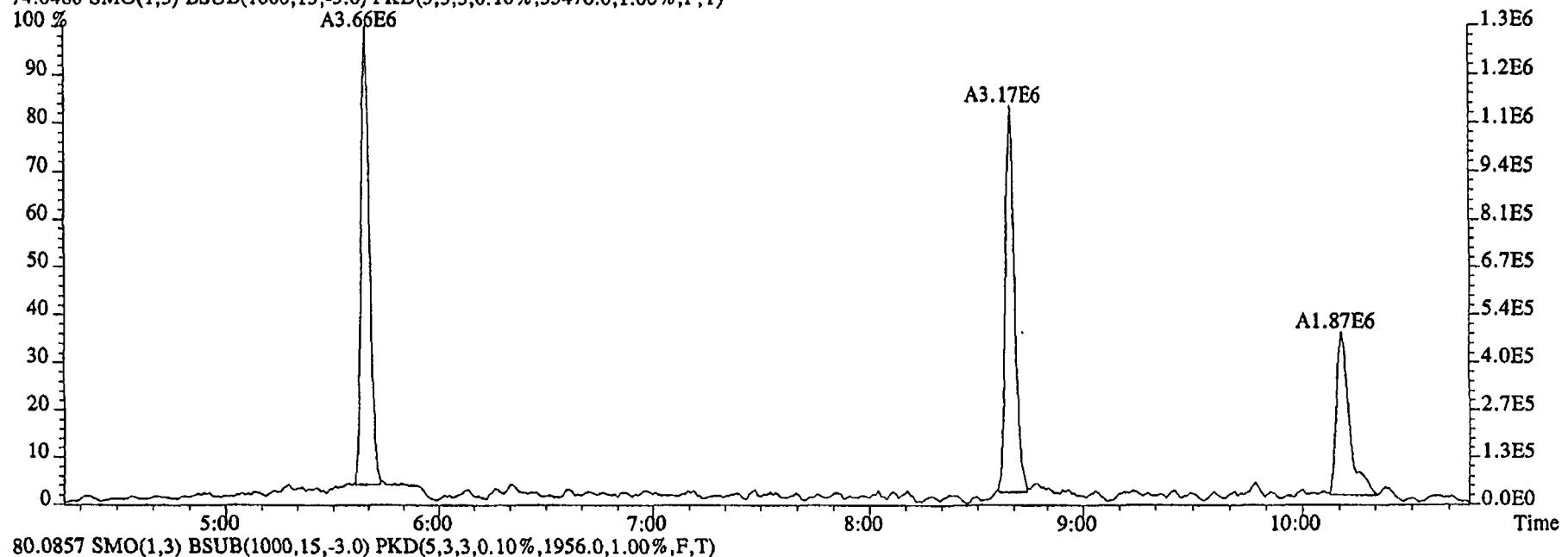
76.9972 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8412.0,1.00%,F,T)



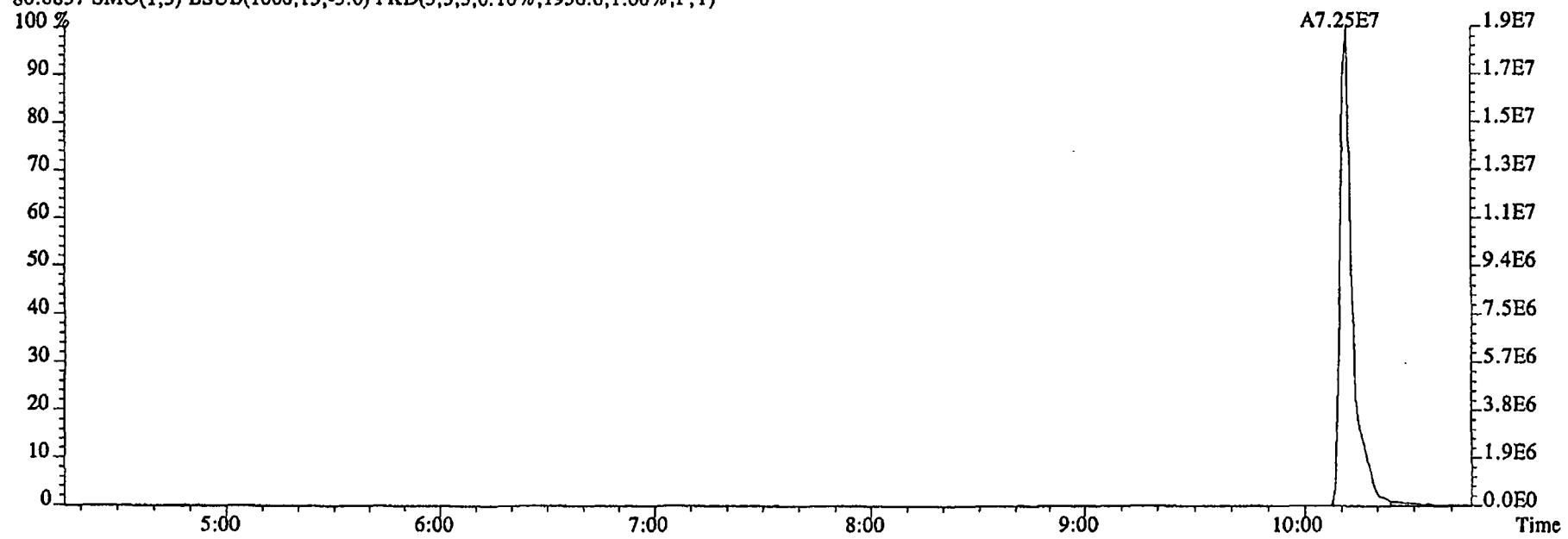
79.0253 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4416.0,1.00%,F,T)



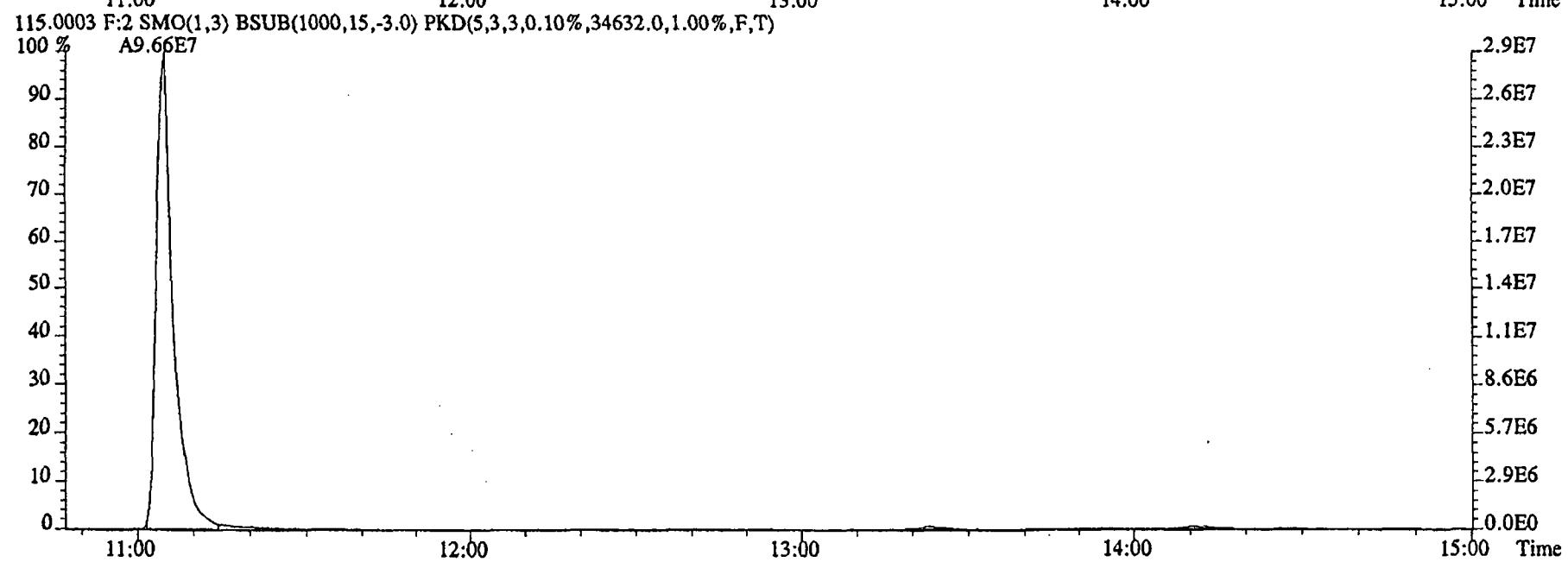
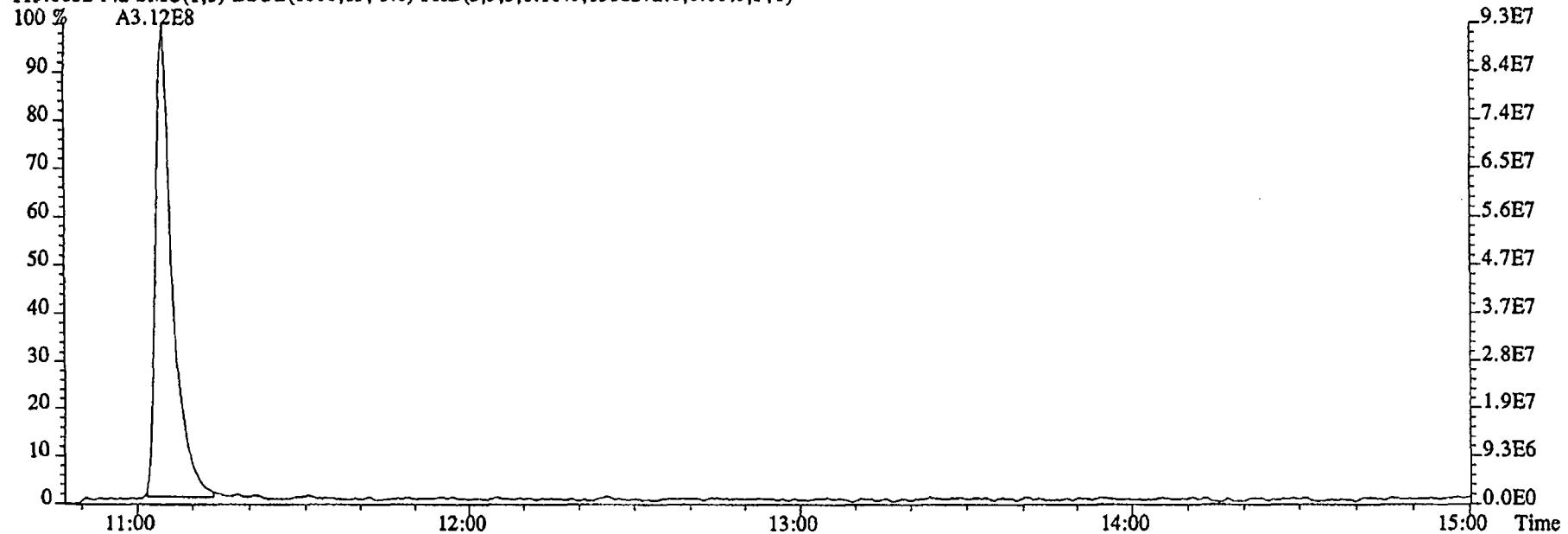
File:16DE045SP #1-481 Acq:16-DEC-2004 18:38:32 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1216 :CS1 2350-68A Exp:NDMAVOA  
74.0480 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35476.0,1.00%,F,T)



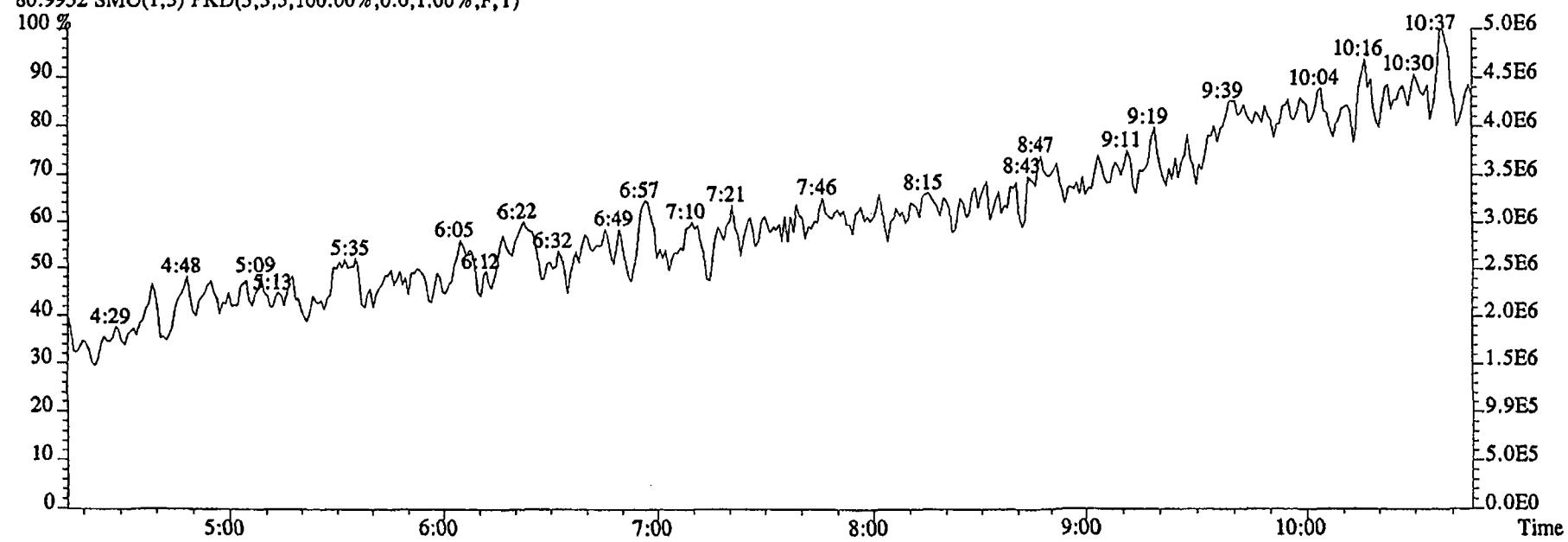
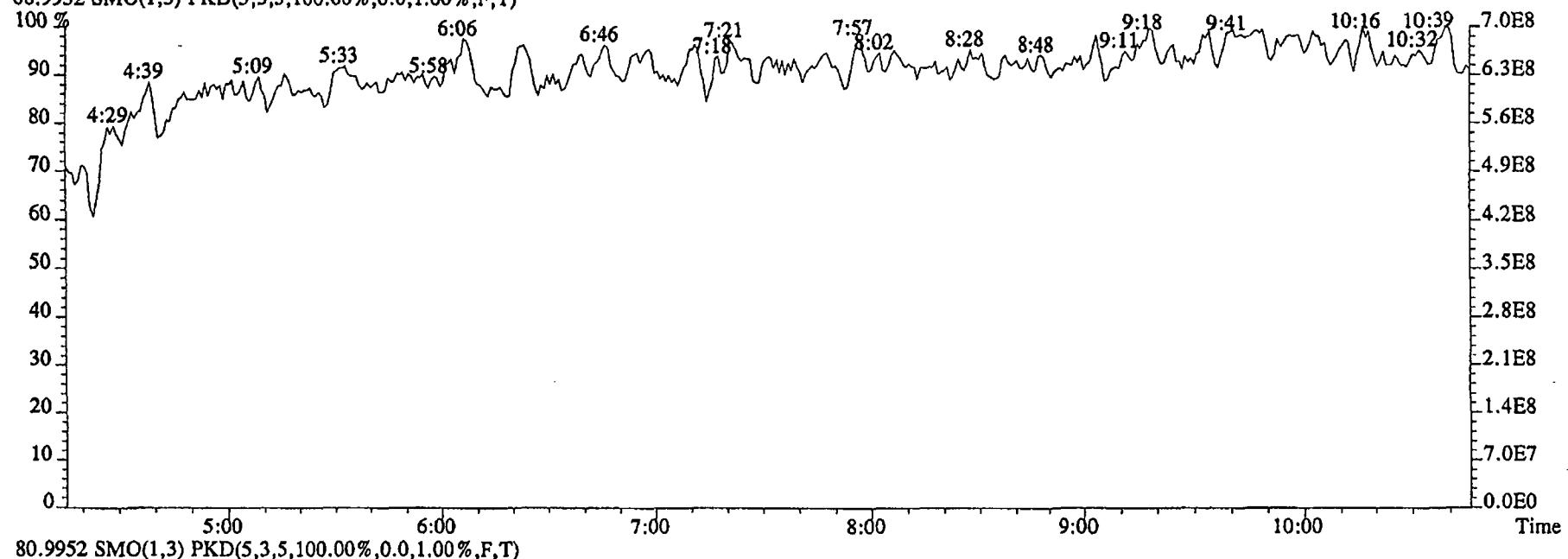
80.0857 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1956.0,1.00%,F,T)



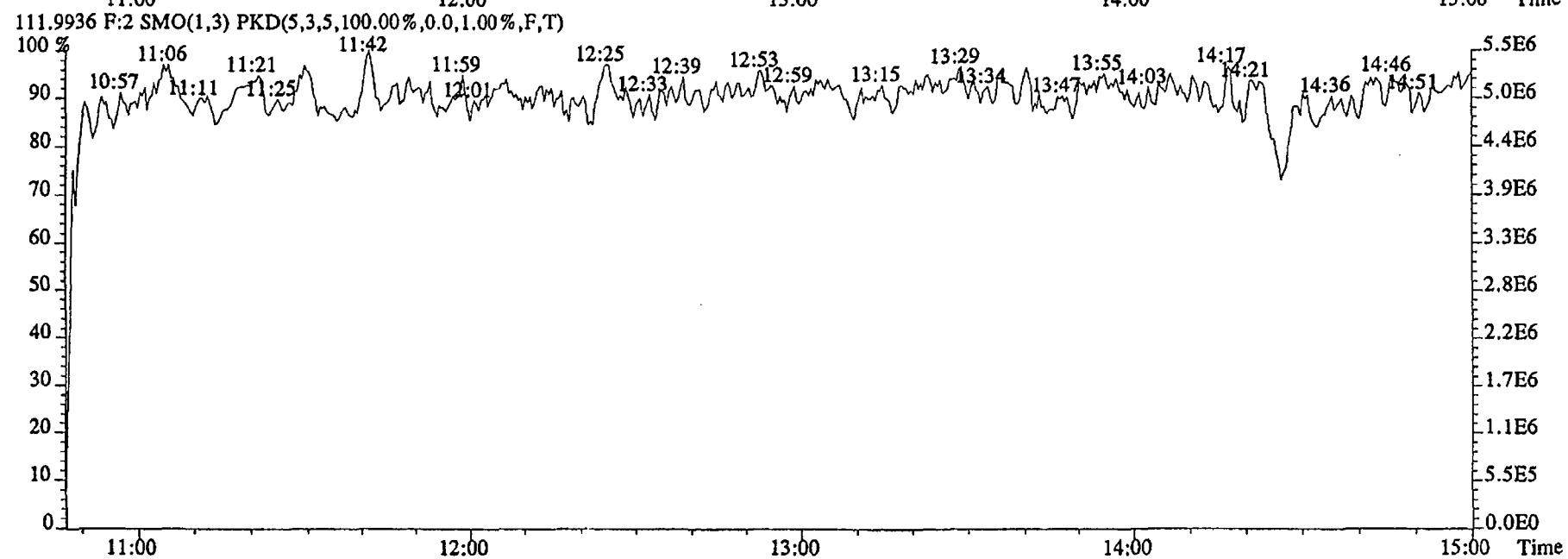
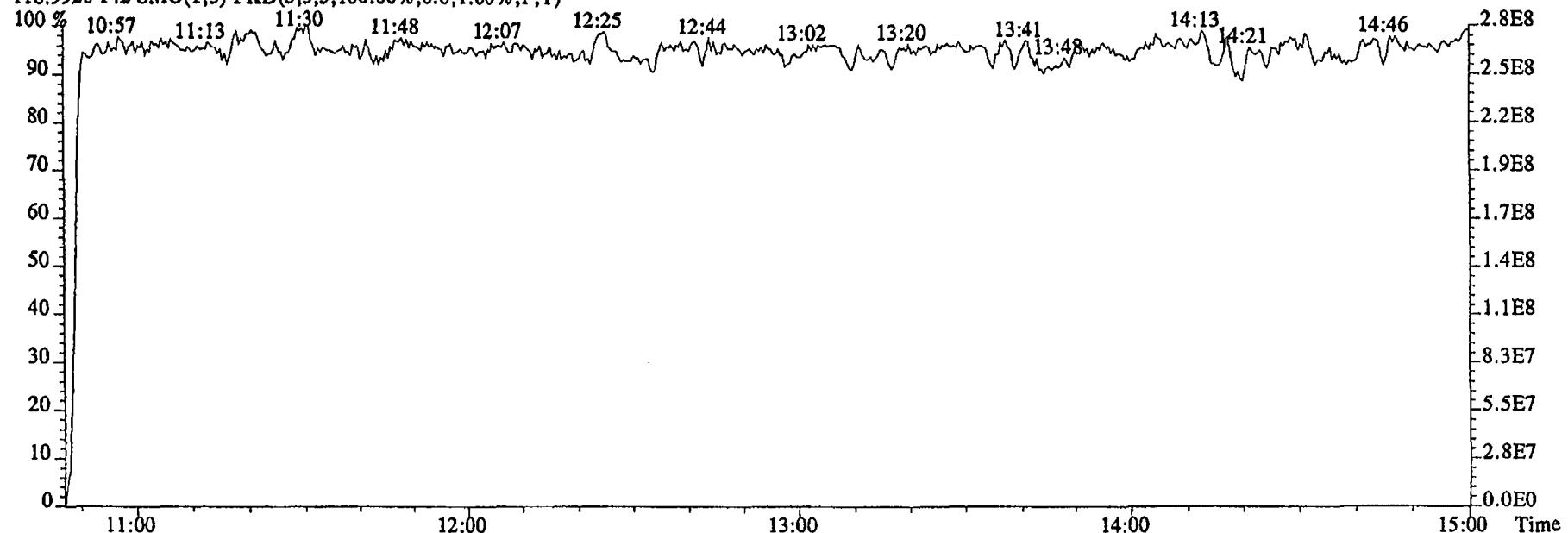
File:16DE045SP #1-590 Acq:16-DEC-2004 18:38:32 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1216 :CS1 2350-68A Exp:NDMAVOA  
113.0032 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1308272.0,1.00%,F,T)



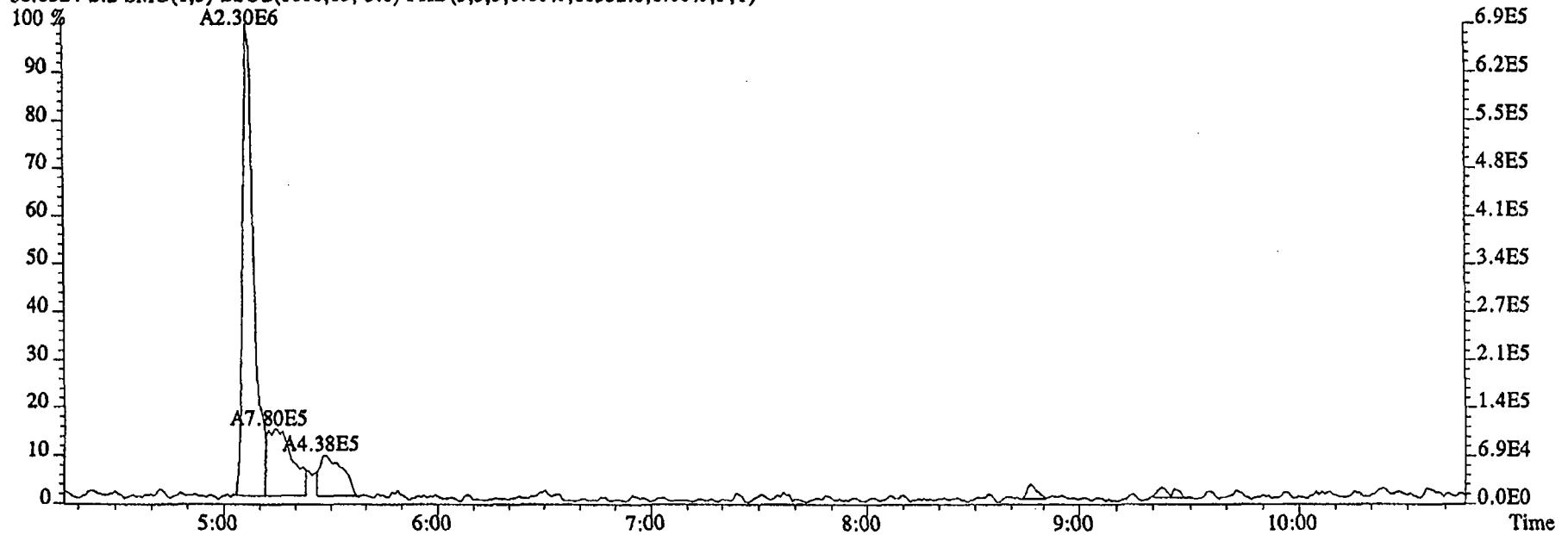
File:16DE045SP #1-481 Acq:16-DEC-2004 18:38:32 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:ST1216 :CS1 2350-68A Exp:NDMAVOA  
 68.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



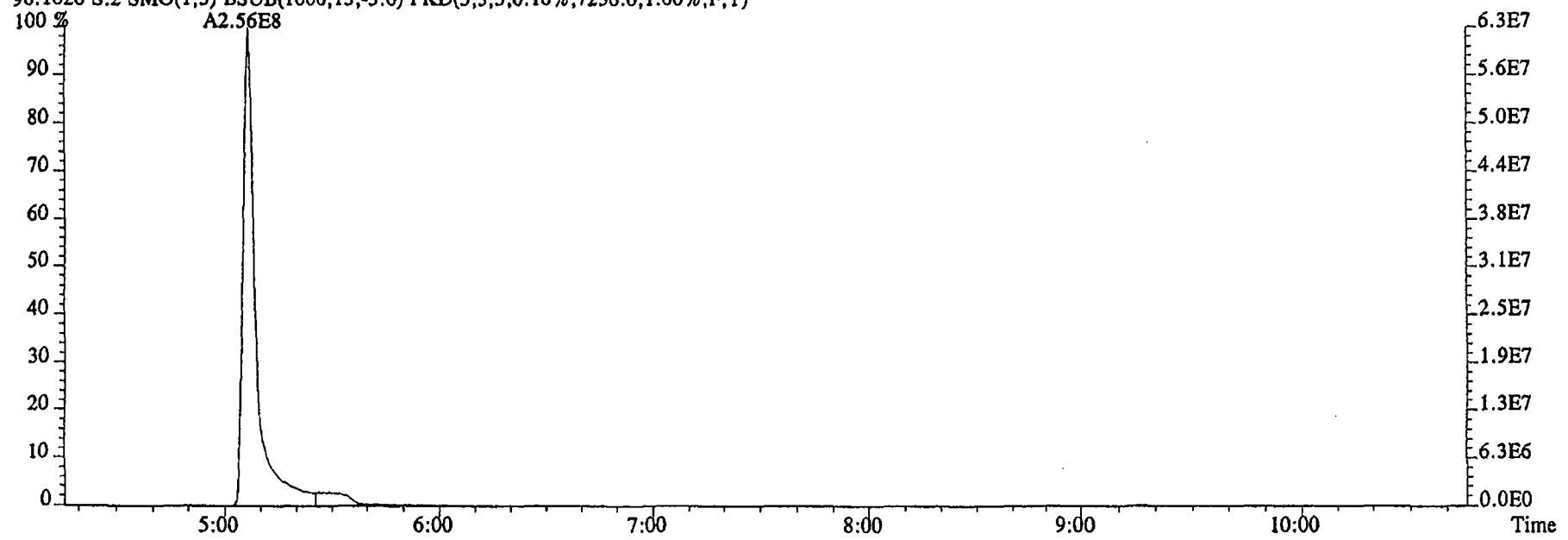
File:16DE04SSP #1-590 Acq:16-DEC-2004 18:38:32 GC EI + Voltage SIR 70SE  
Sample#1 Text:ST1216 :CS1 2350-68A Exp:NDMAVOA  
118.9920 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



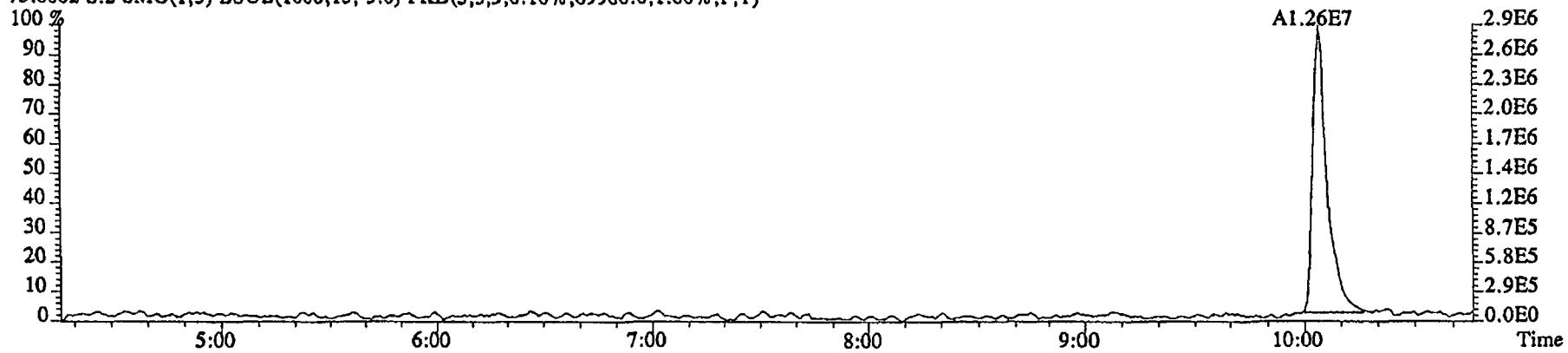
File:16DE045SP #1-480 Acq:16-DEC-2004 18:58:44 GC EI + Voltage SIR 70SE  
Sample#2 Text:ST1216A :CS2 2350-68B Exp:NDMAVOA  
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11332.0,1.00%,F,T)



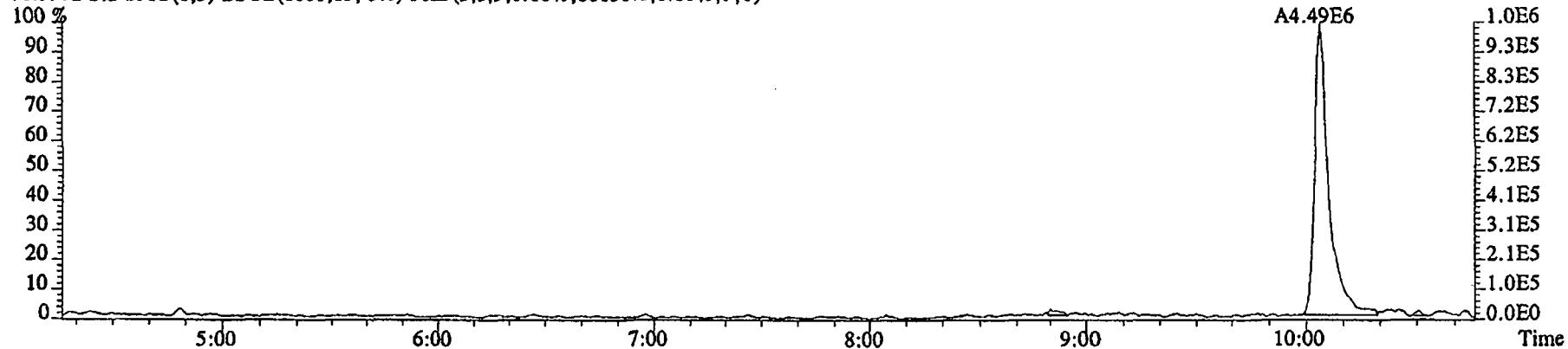
96.1026 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7236.0,1.00%,F,T)



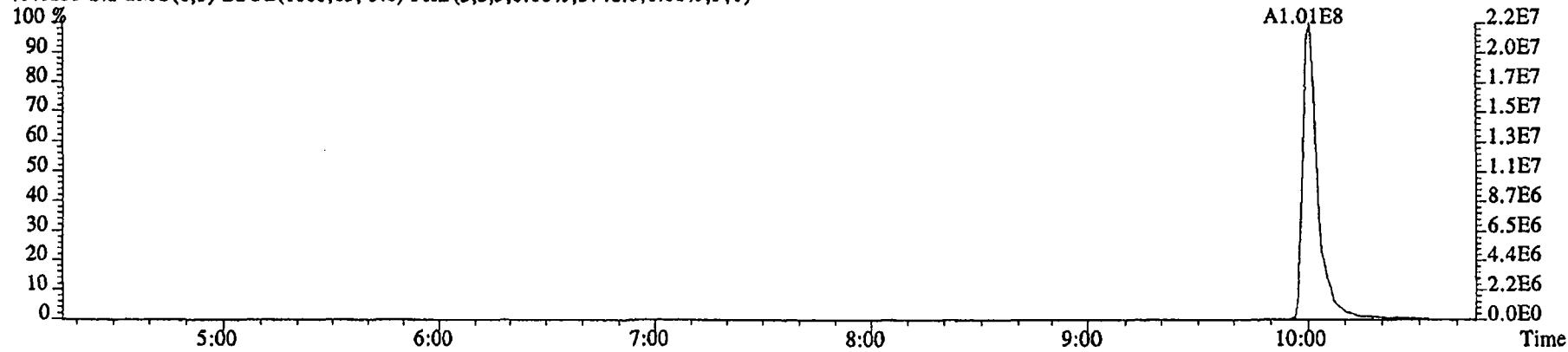
File:16DE045SP #1-480 Acq:16-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1216A :CS2 2350-68B Exp:NDMAVOA  
75.0002 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,69900.0,1.00%,F,T)



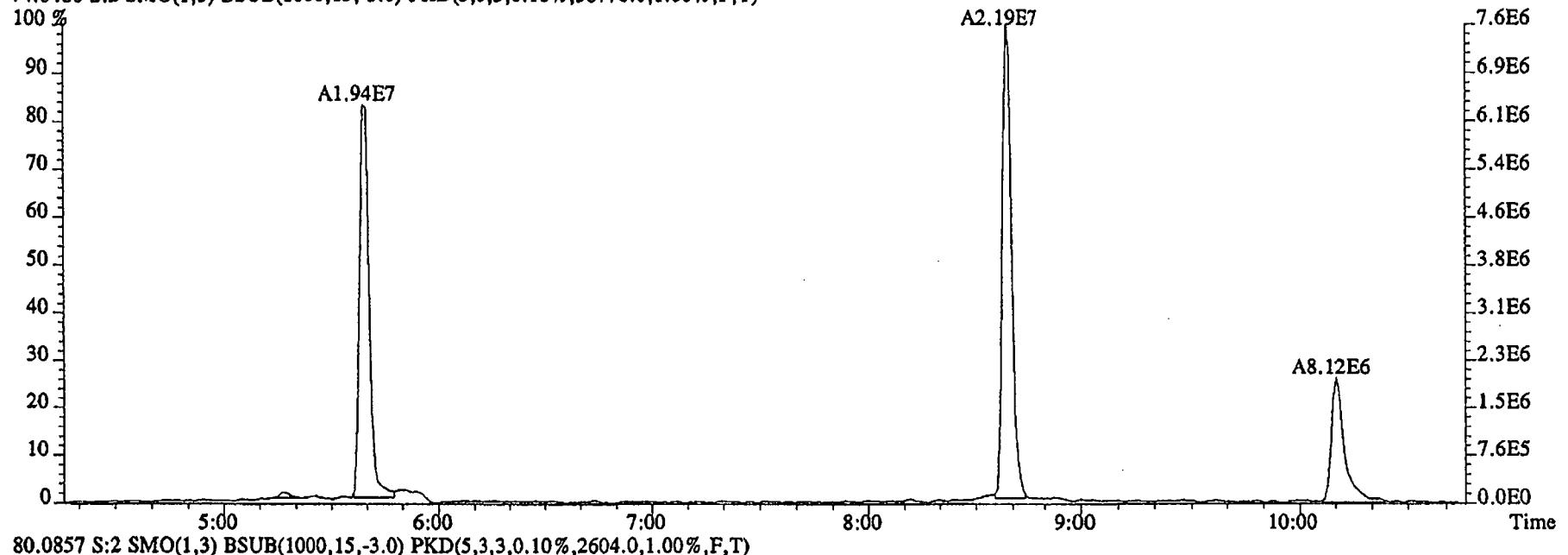
76.9972 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16136.0,1.00%,F,T)



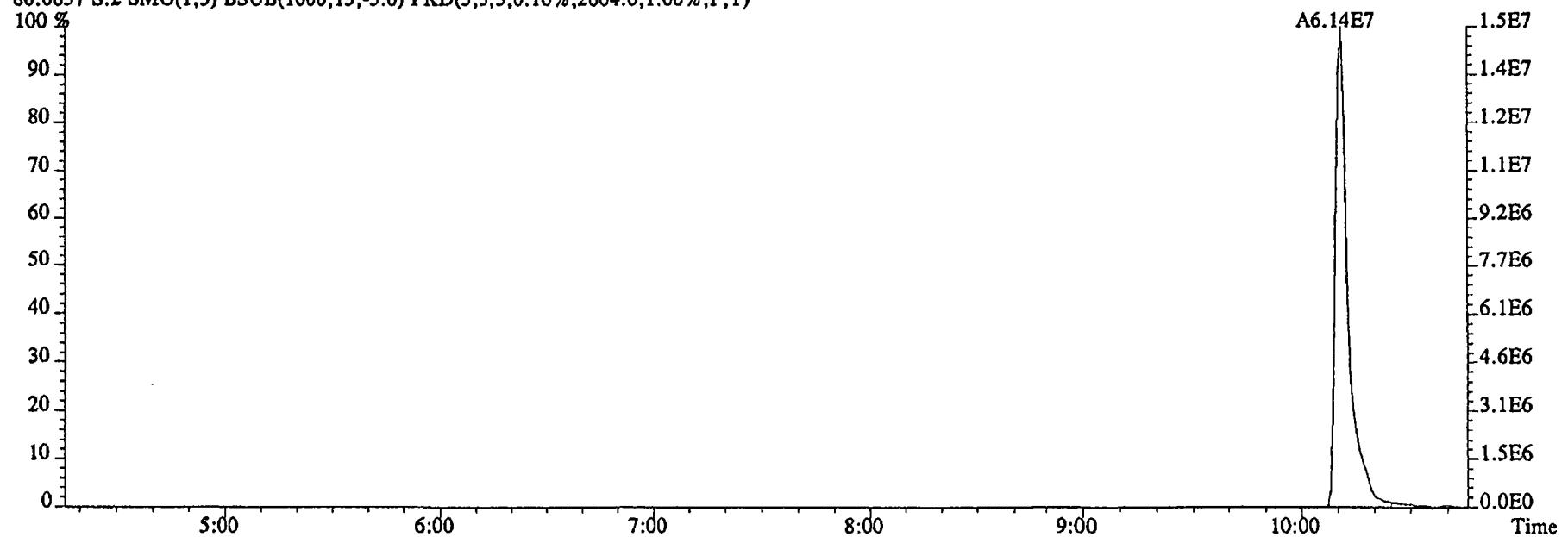
79.0253 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5748.0,1.00%,F,T)



File:16DE045SP #1-480 Acq:16-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1216A :CS2 2350-68B Exp:NDMAVOA  
74.0480 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,38776.0,1.00%,F,T)



80.0857 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2604.0,1.00%,F,T)

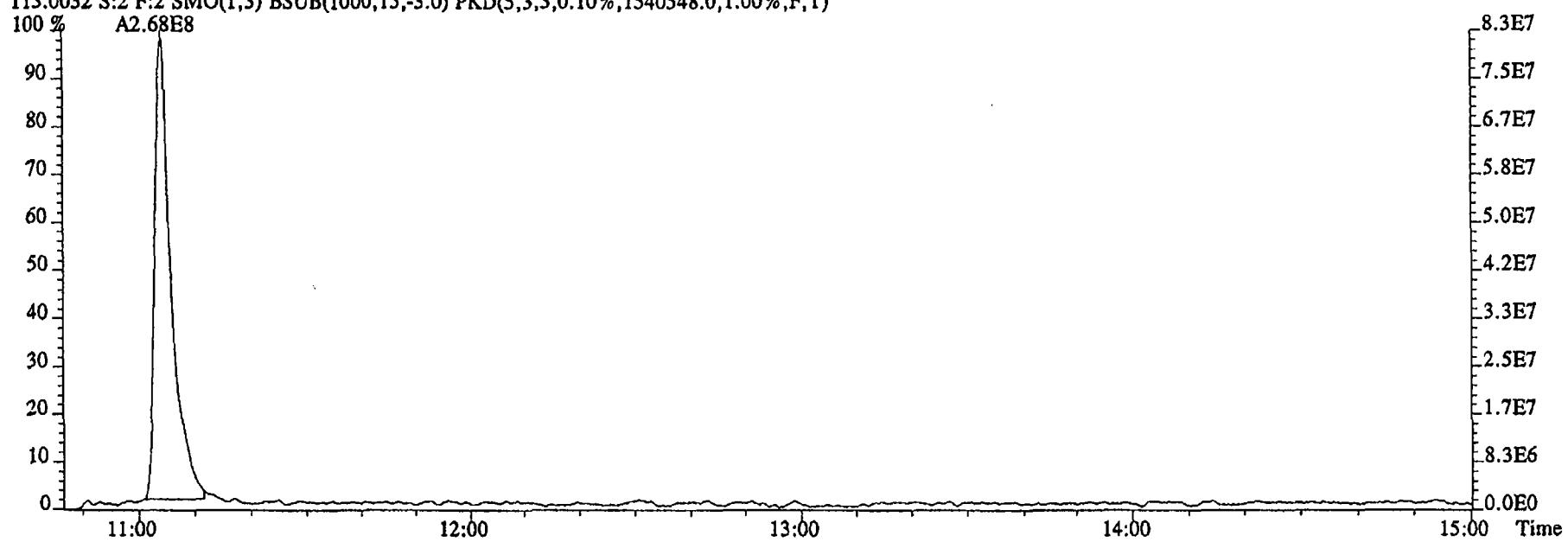


File:16DE045SP #1-591 Acq:16-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE

Sample#2 Text:ST1216A :CS2 2350-68B Exp:NDMAVOA

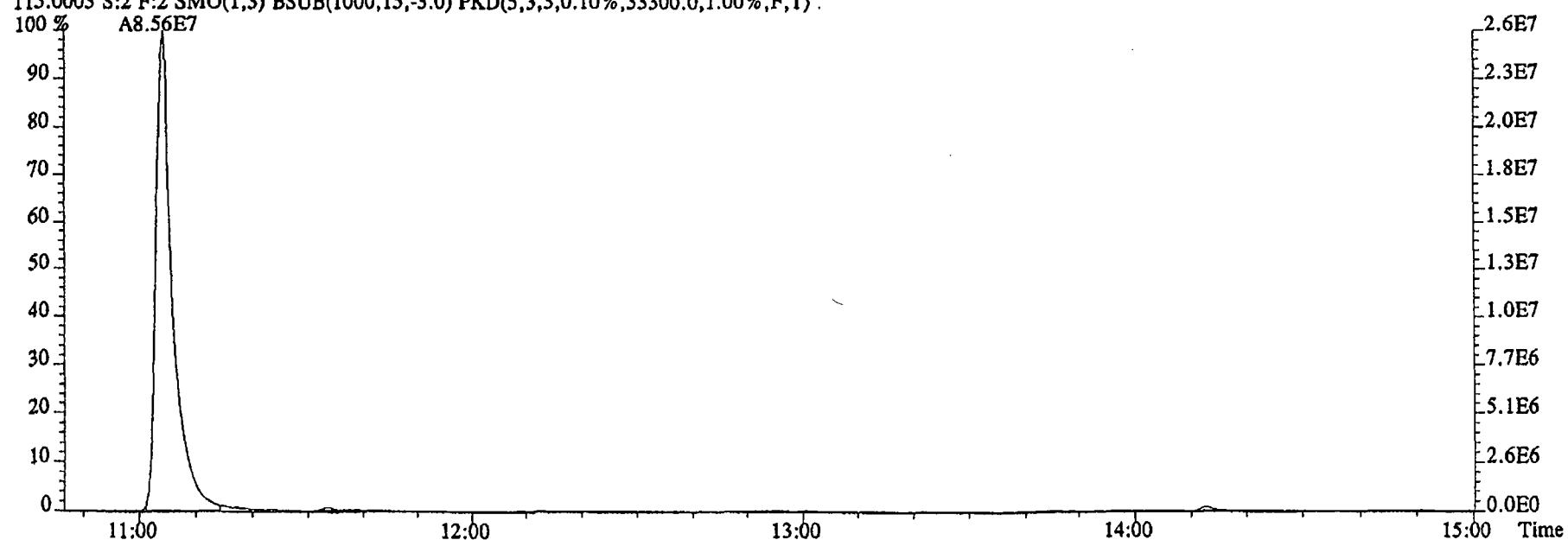
113.0032 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1540548.0,1.00%,F,T)

100 % A2.68E8

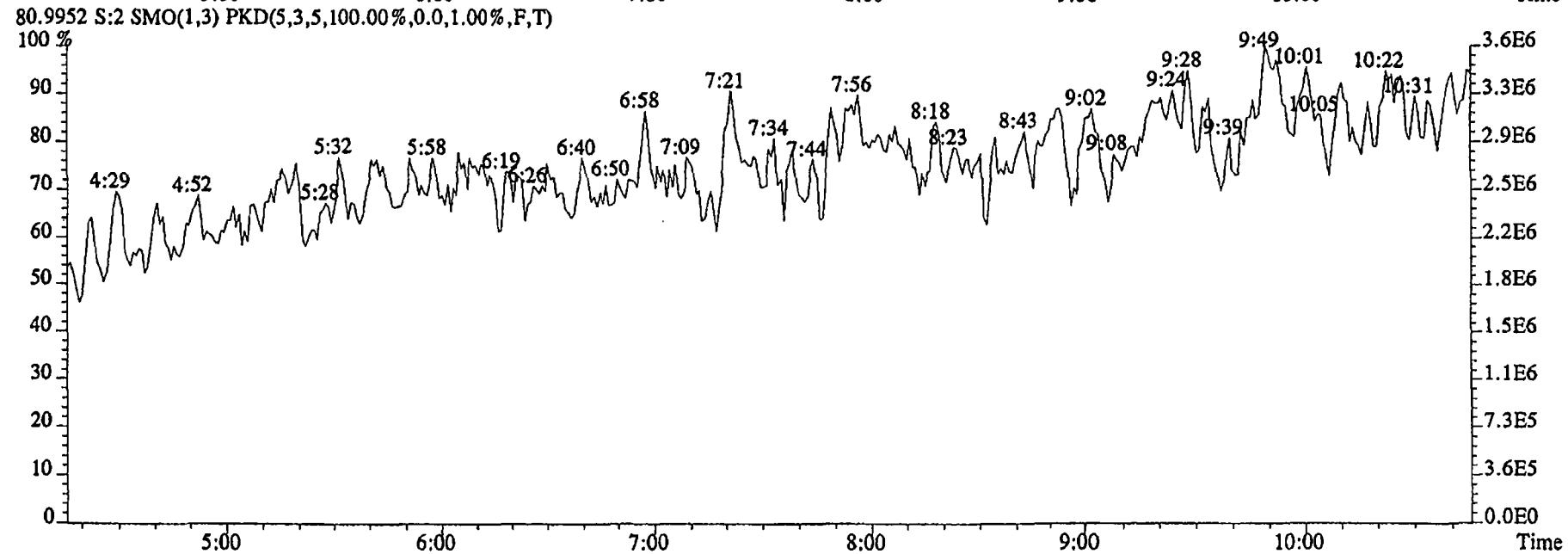
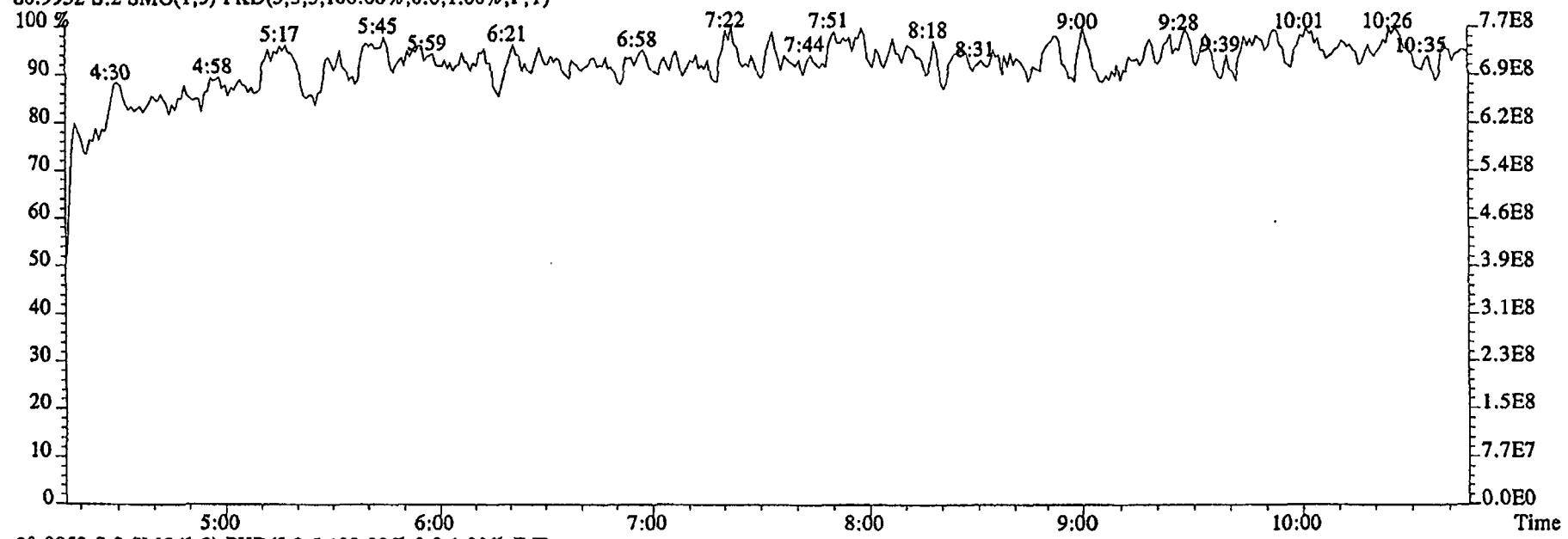


115.0003 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33300.0,1.00%,F,T)

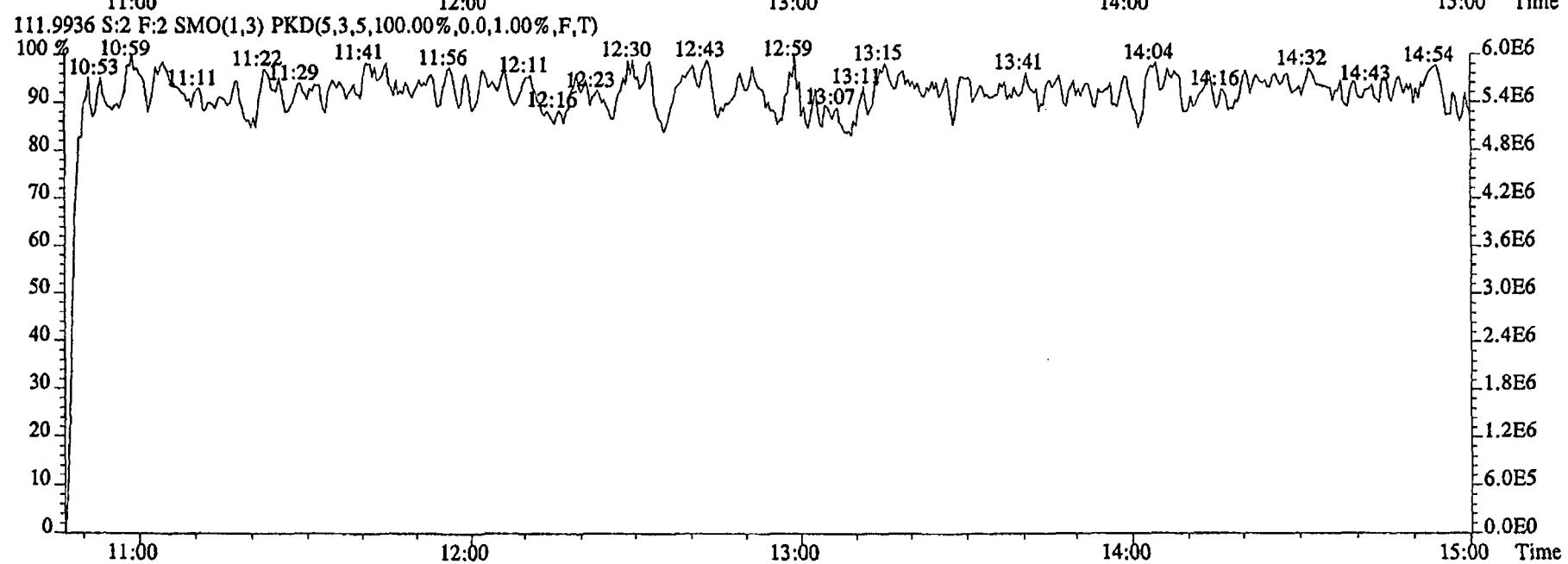
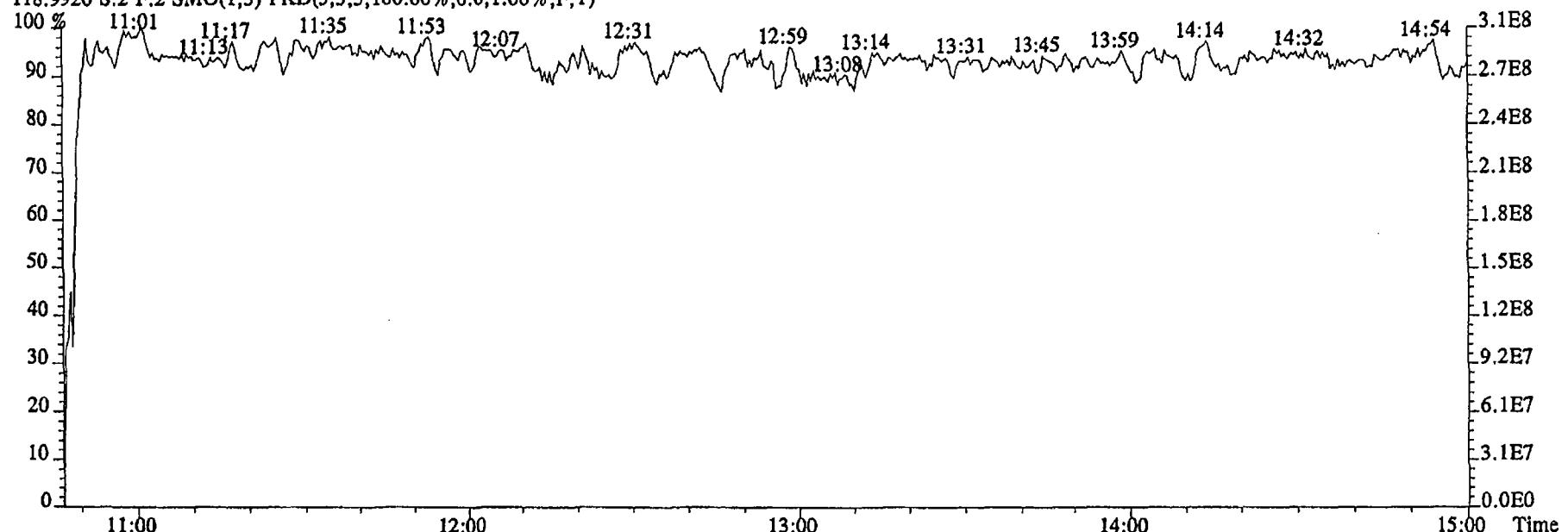
100 % A8.56E7



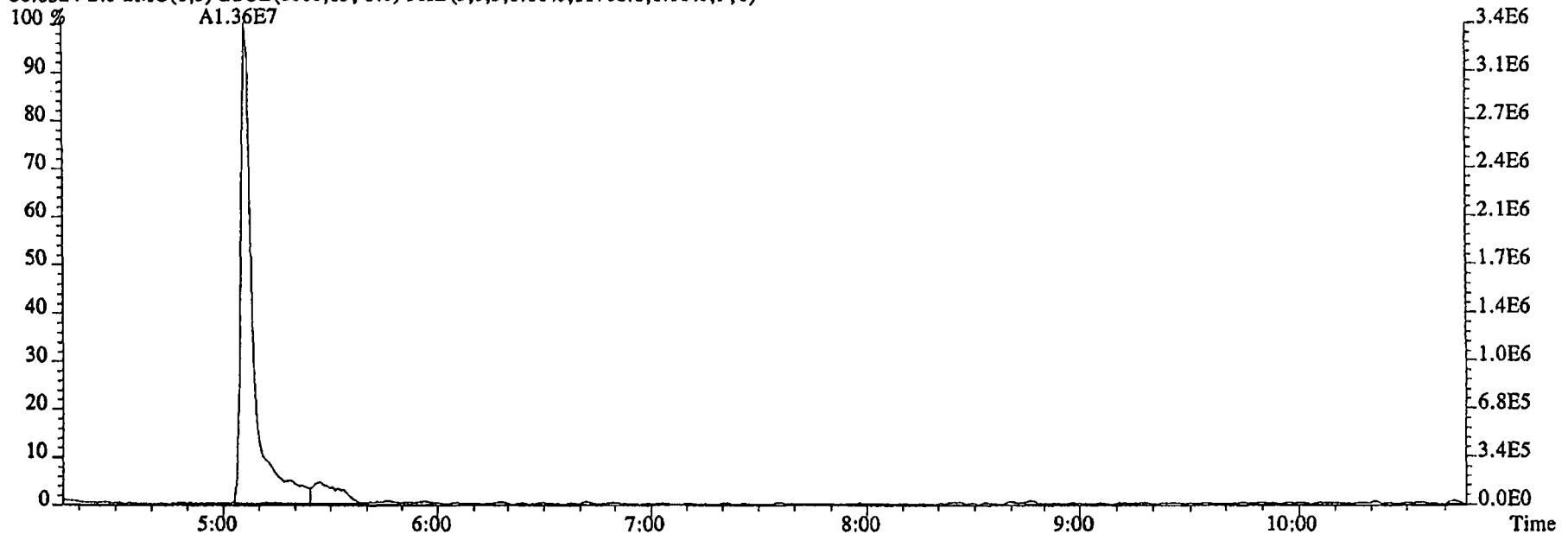
File:16DE04SSP #1-480 Acq:16-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST1216A :CS2 2350-68B Exp:NDMAVOA  
 68.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



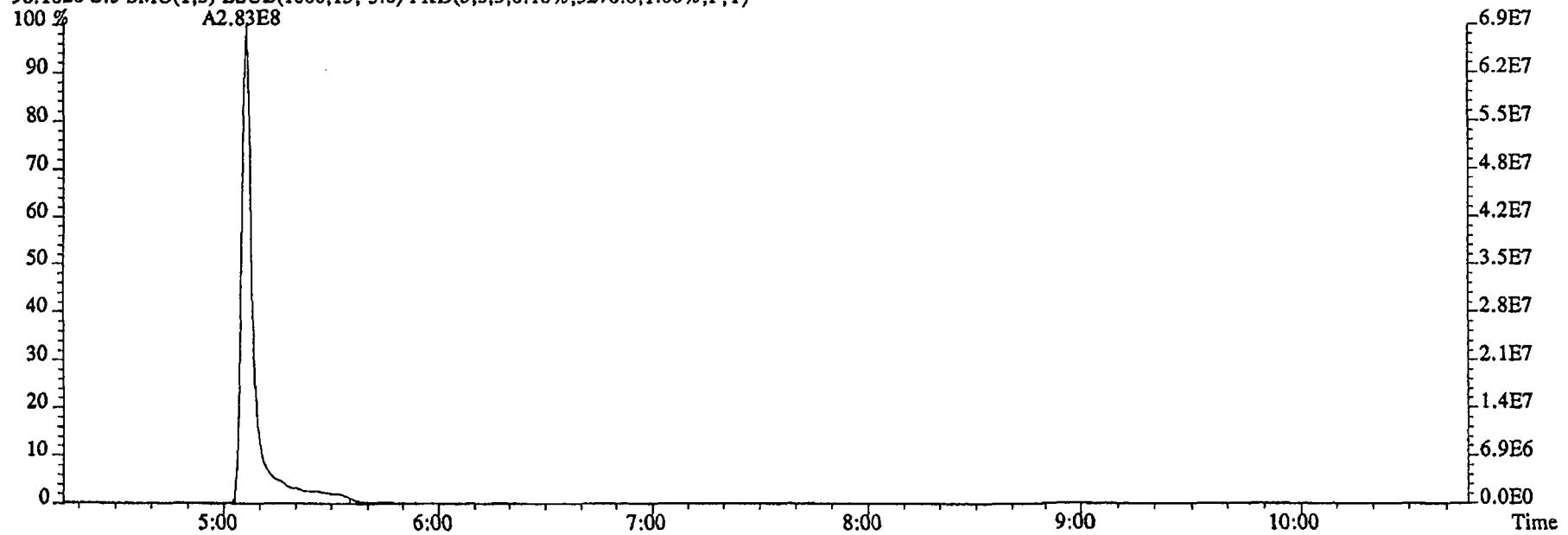
File:16DE04SSP #1-591 Acq:16-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1216A :CS2 2350-68B Exp:NDMAVOA  
118.9920 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



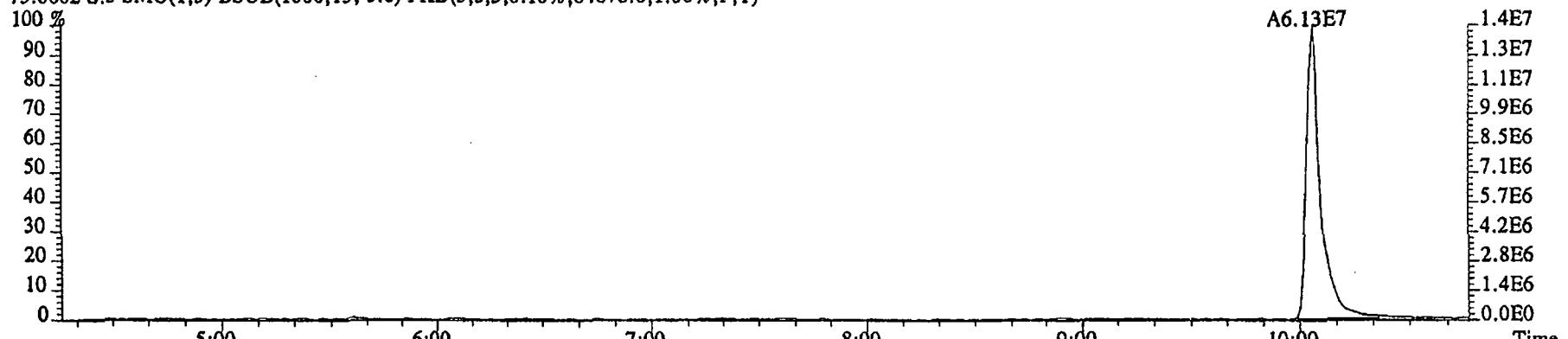
File:16DE045SP #1-481 Acq:16-DEC-2004 19:19:02 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1216B :CS3 2350-68C Exp:NDMAVOA  
88.0524 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11708.0,1.00%,F,T)



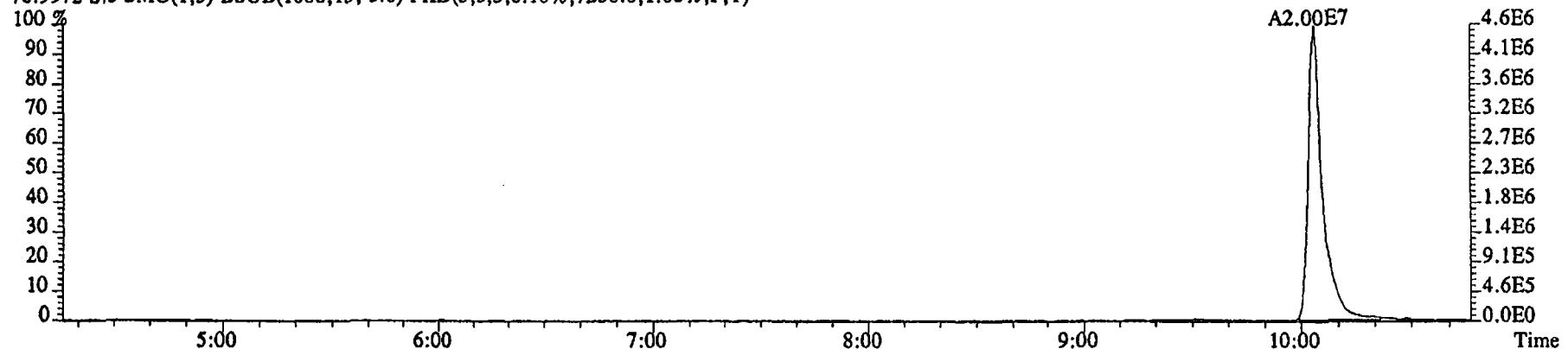
96.1026 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5276.0,1.00%,F,T)



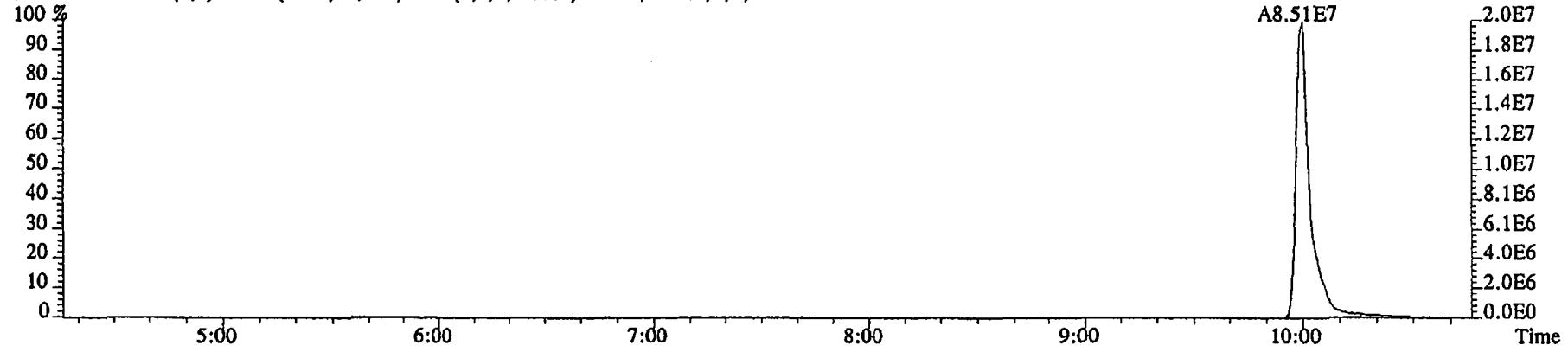
File:16DE045SP #1-481 Acq:16-DEC-2004 19:19:02 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1216B :CS3 2350-68C Exp:NDMAVOA  
75.0002 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64876.0,1.00%,F,T)



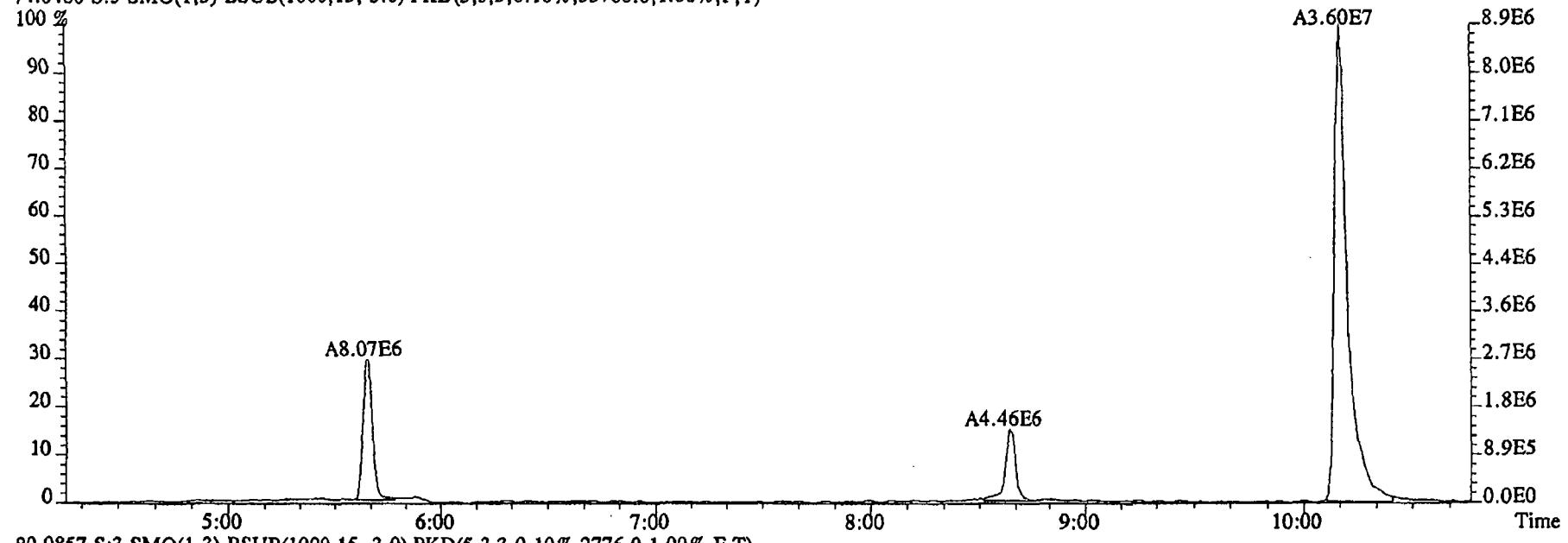
76.9972 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7236.0,1.00%,F,T)



79.0253 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5132.0,1.00%,F,T)

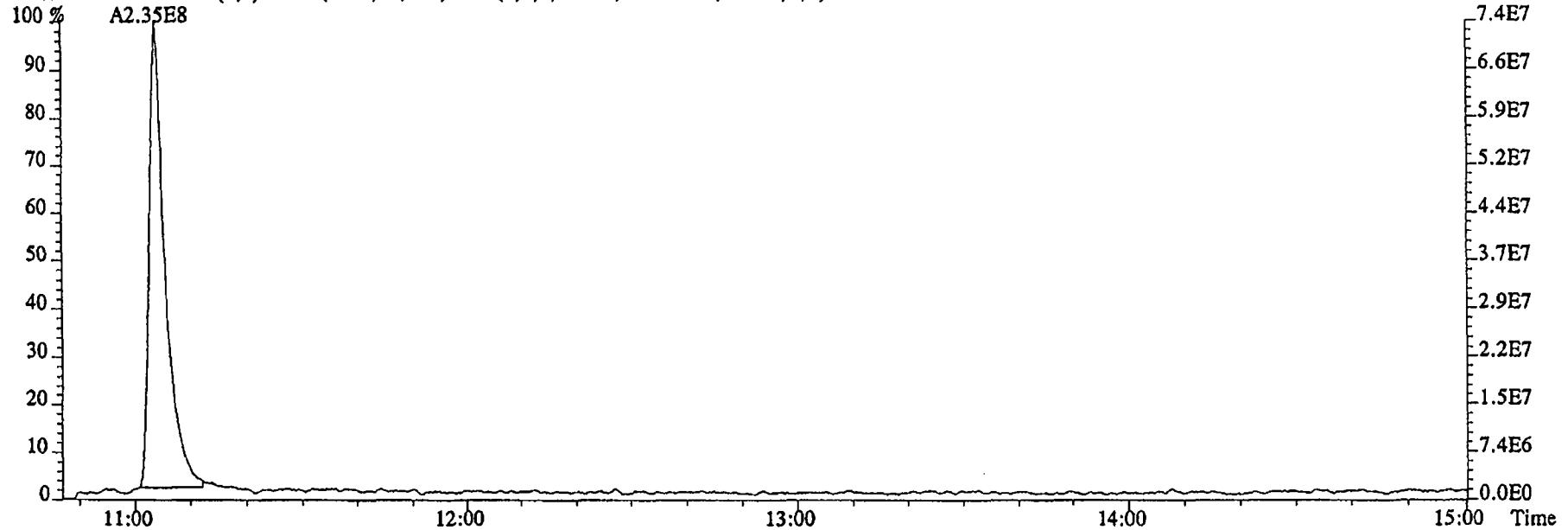


File:16DE045SP #1-481 Acq:16-DEC-2004 19:19:02 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1216B :CS3 2350-68C Exp:NDMAVOA  
74.0480 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35760.0,1.00%,F,T)

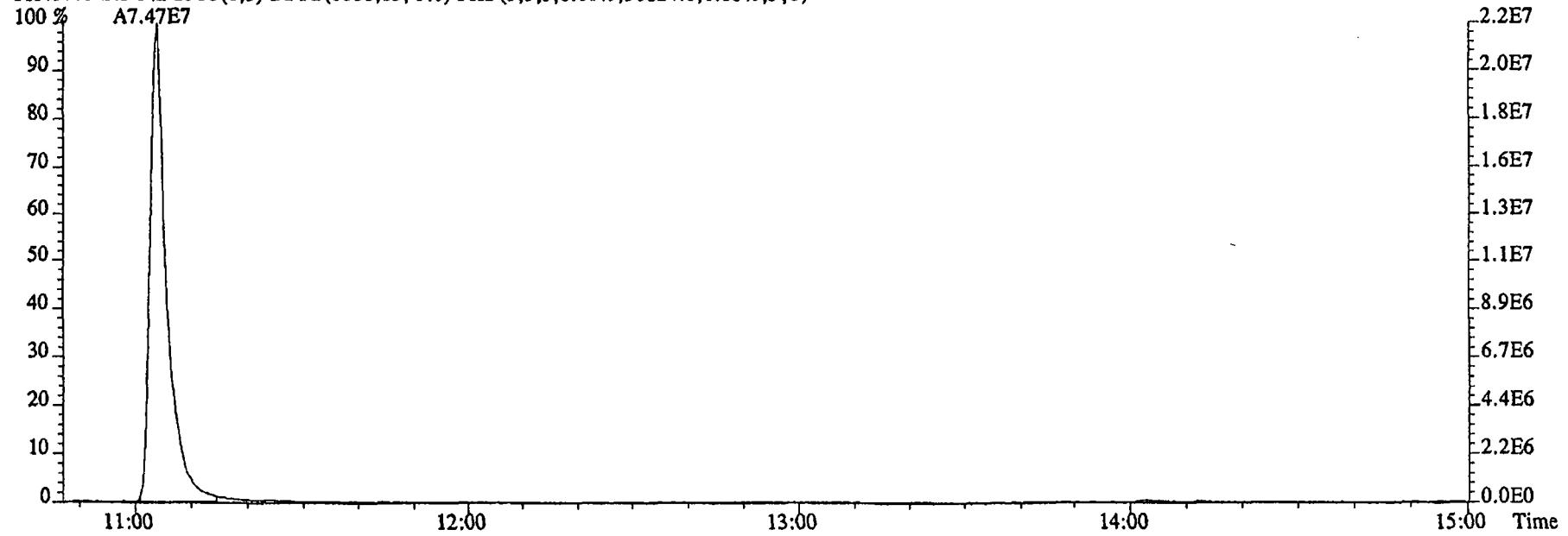


80.0857 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2776.0,1.00%,F,T)

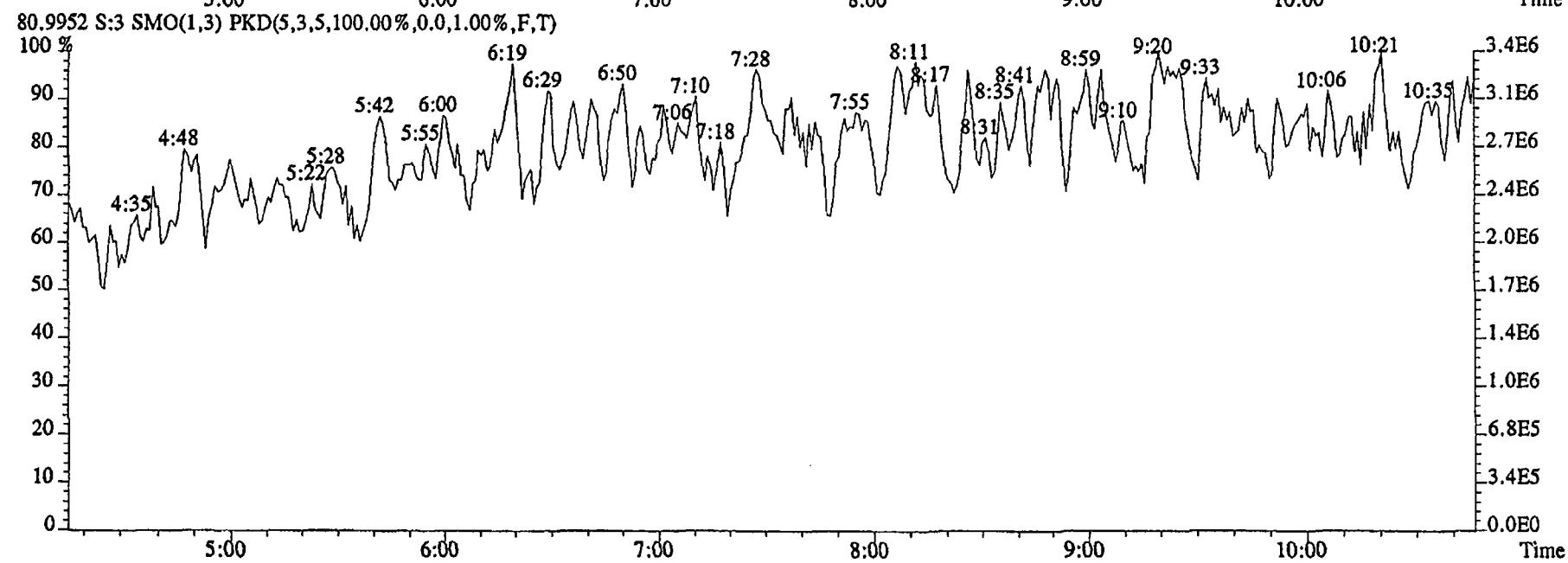
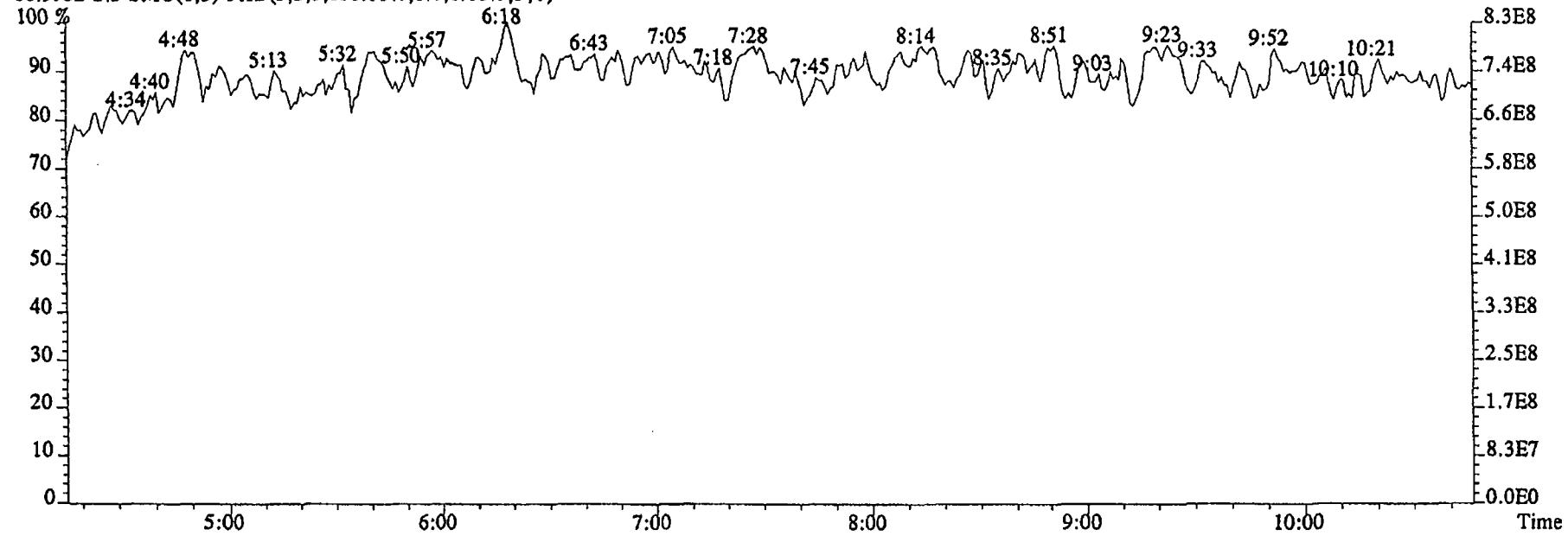
File:16DE045SP #1-590 Acq:16-DEC-2004 19:19:02 GC El+ Voltage SIR 70SE  
Sample#3 Text:ST1216B :CS3 2350-68C Exp:NDMAVOA  
113.0032 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1502684.0,1.00%,F,T)



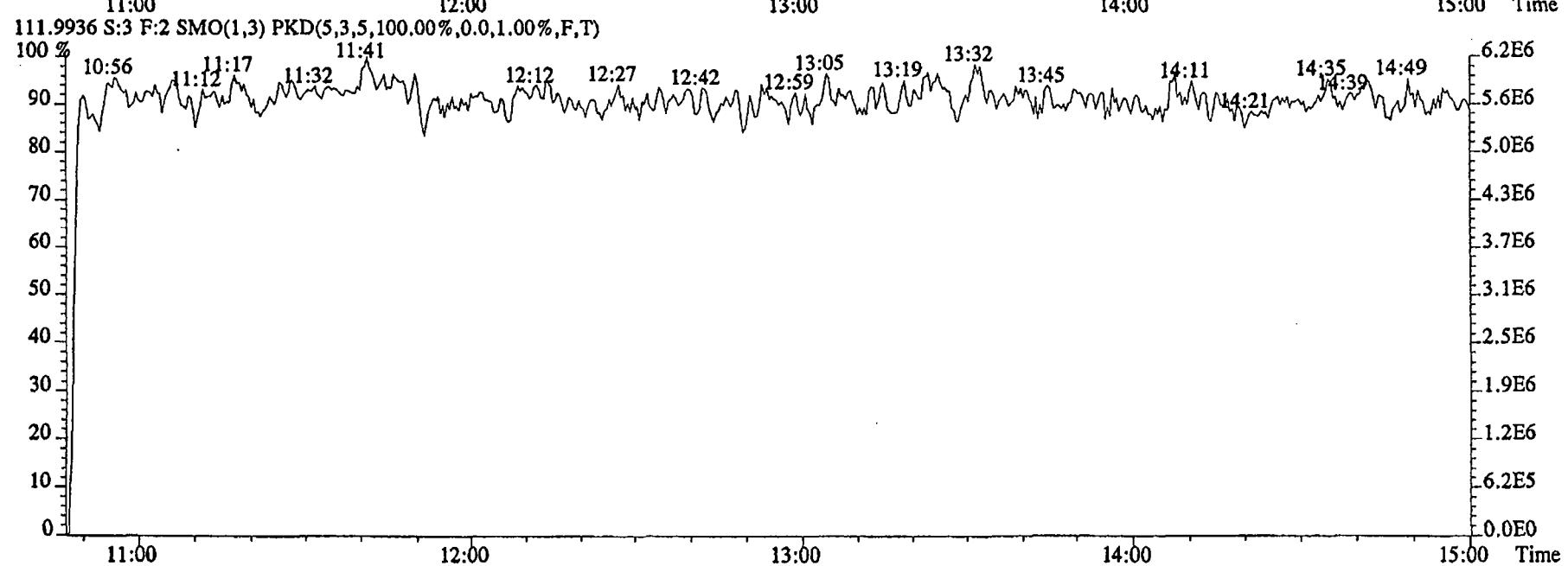
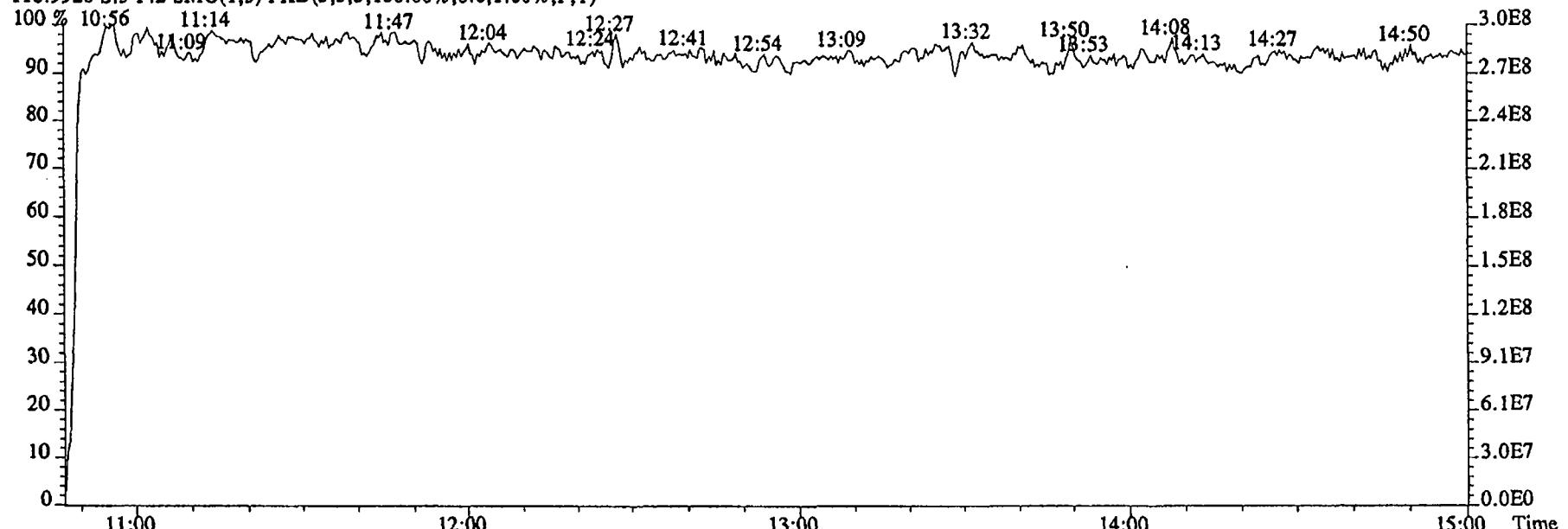
115.0003 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30824.0,1.00%,F,T)



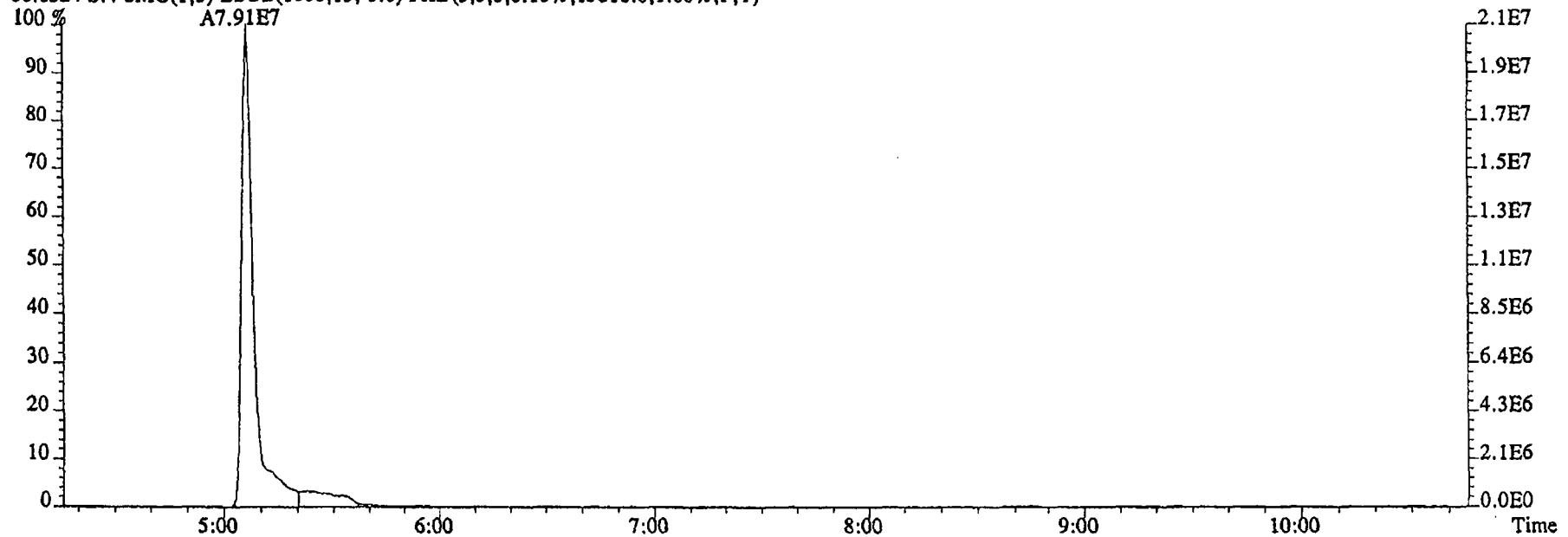
File:16DE045SP #1-481 Acq:16-DEC-2004 19:19:02 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST1216B :CS3 2350-68C Exp:NDMAVOA  
 68.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



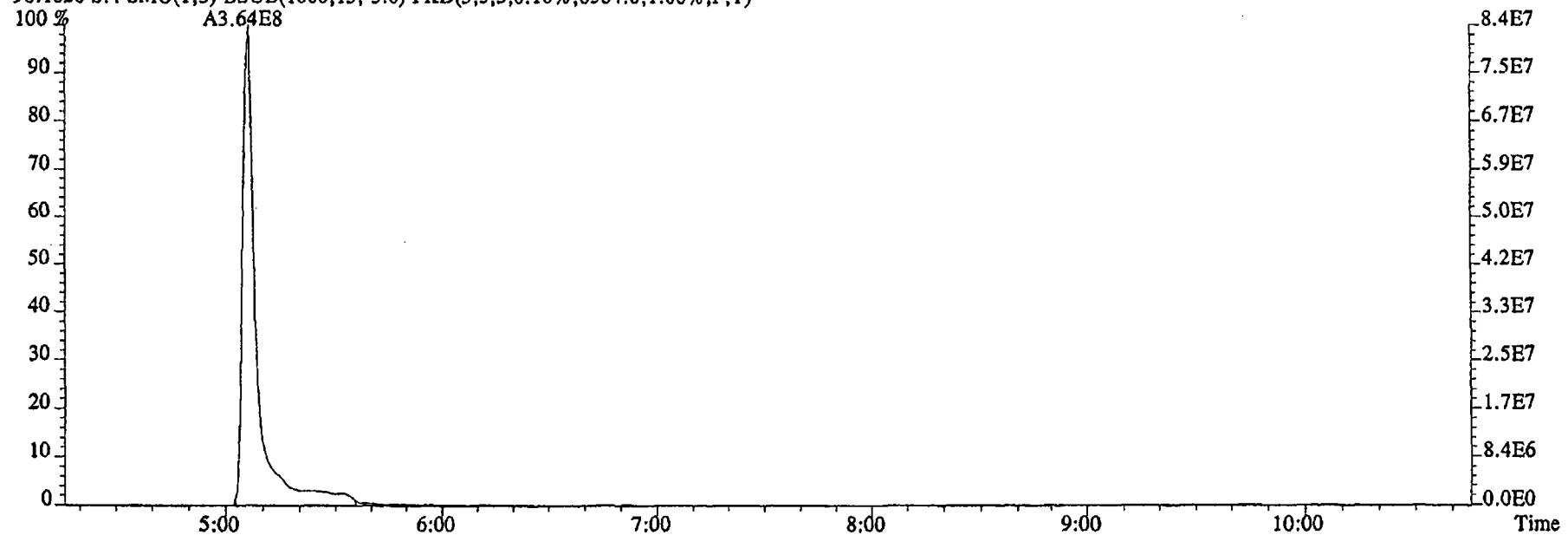
File:16DE045SP #1-590 Acq.16-DEC-2004 19:19:02 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1216B :CS3 2350-68C Exp:NDMAVOA  
118.9920 S:3 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



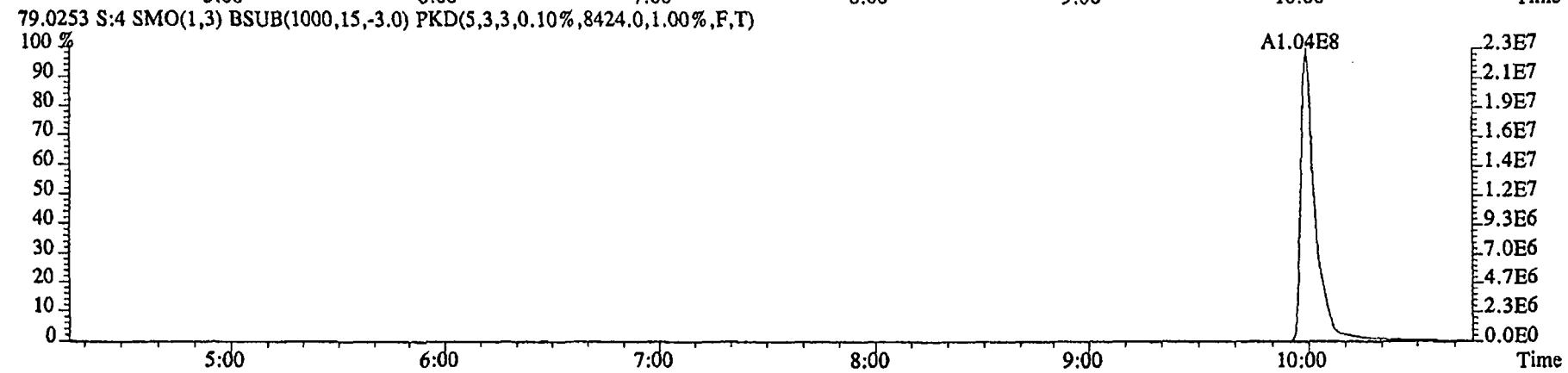
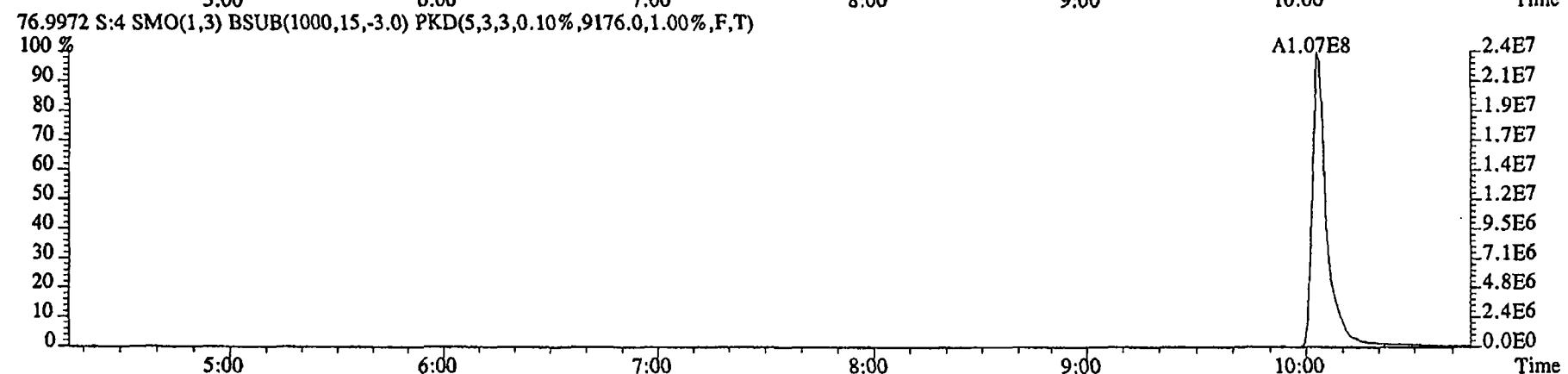
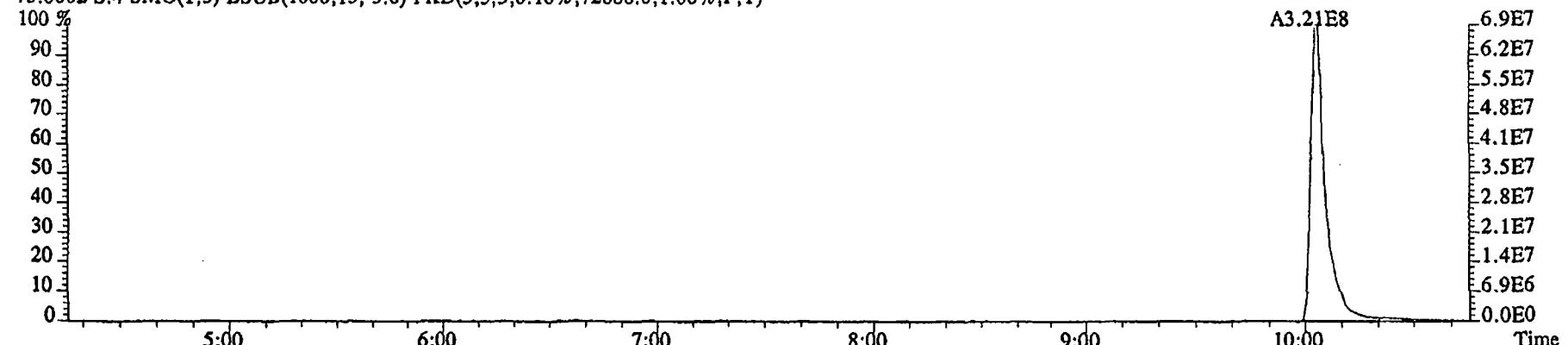
File:16DE045SP #1-480 Acq:16-DEC-2004 19:39:23 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1216C :CS4 2350-68D Exp:NDMAVOA  
88.0524 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15816.0,1.00%,F,T)



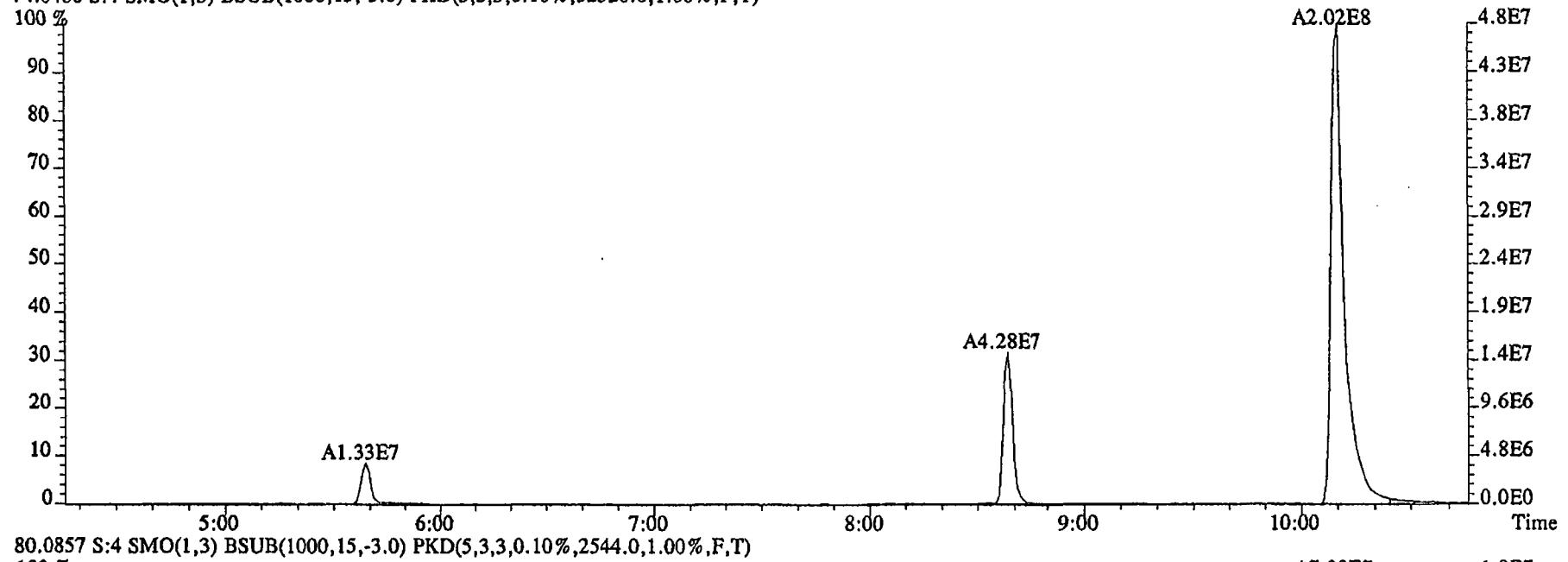
96.1026 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6384.0,1.00%,F,T)



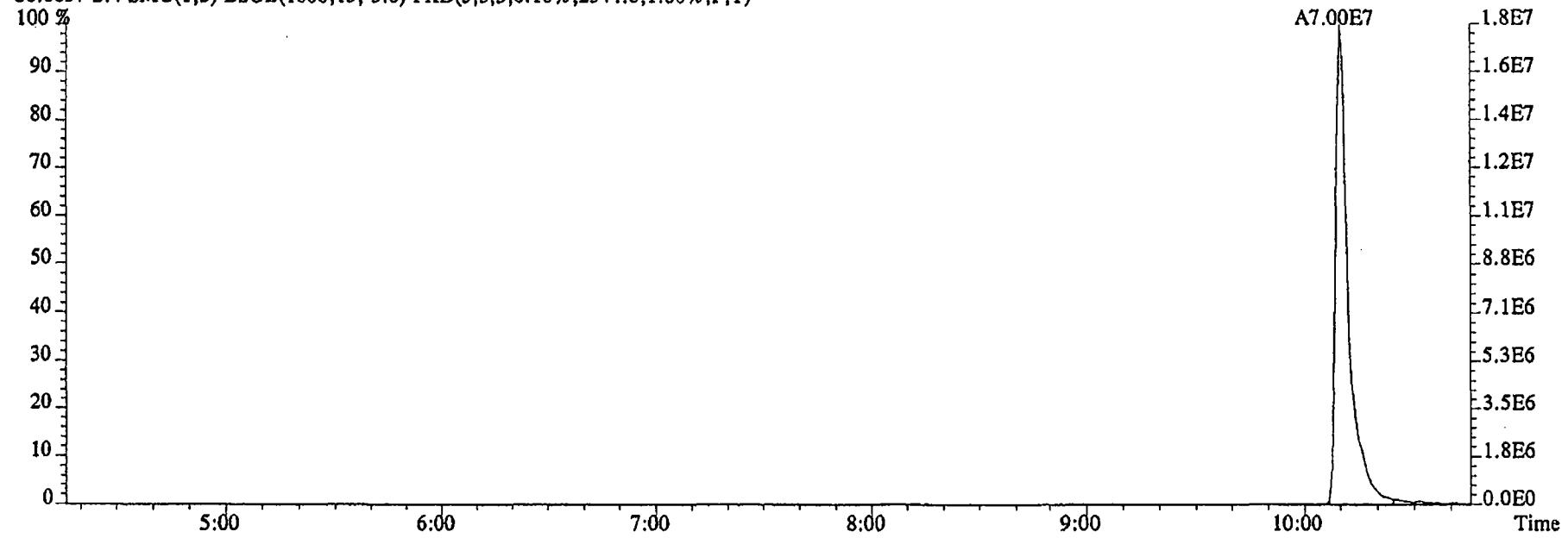
File:16DE045SP #1-480 Acq:16-DEC-2004 19:39:23 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:ST1216C :CS4 2350-68D Exp:NDMAVOA  
 75.0002 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72888.0,1.00%,F,T)



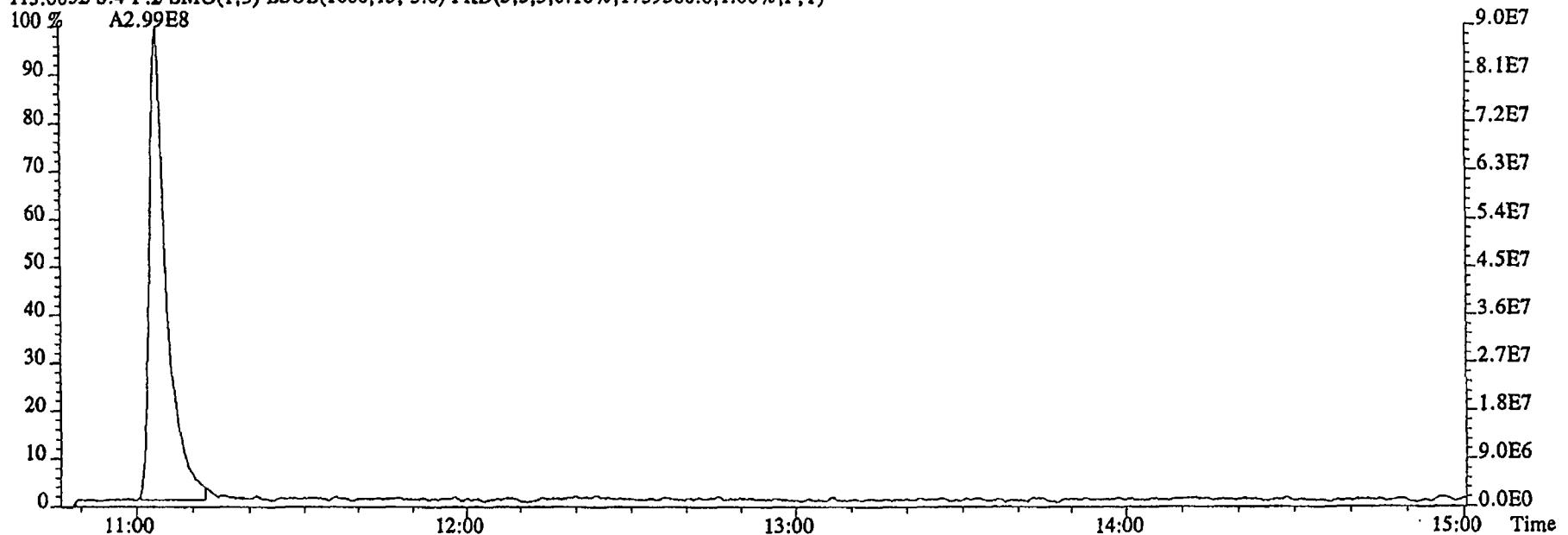
File:16DE045SP #1-480 Acq:16-DEC-2004 19:39:23 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1216C :CS4 2350-68D Exp:NDMAVOA  
74.0480 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32520.0,1.00%,F,T)



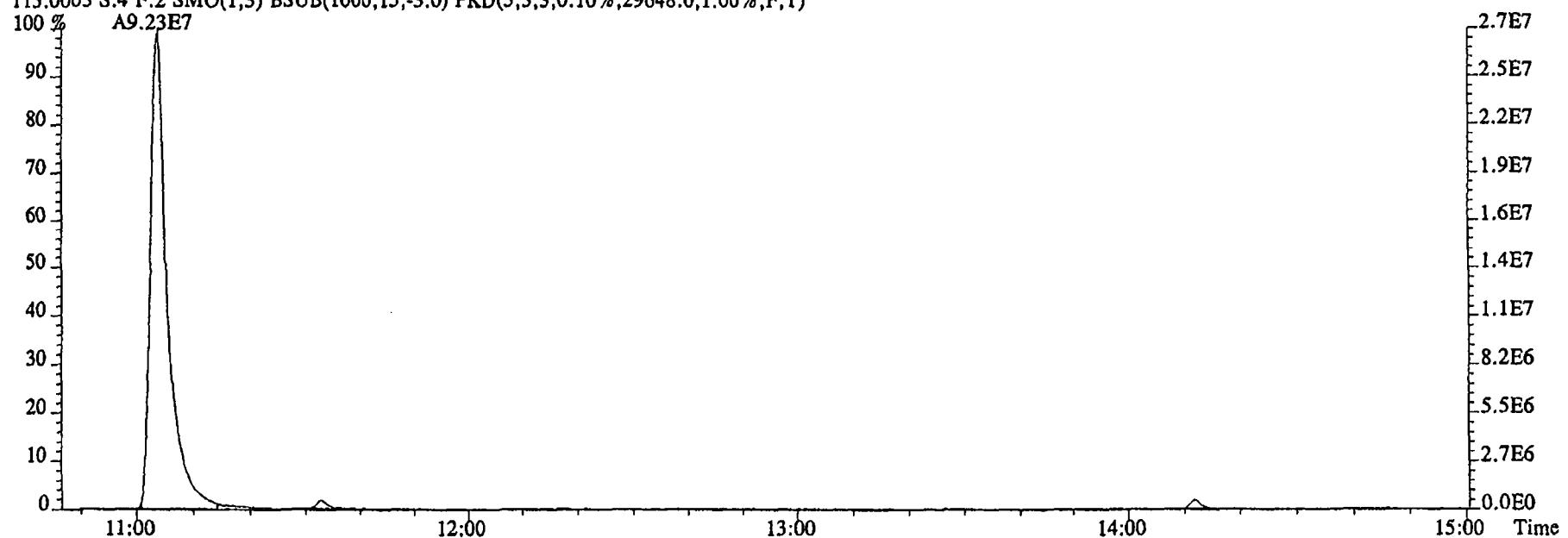
80.0857 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2544.0,1.00%,F,T)



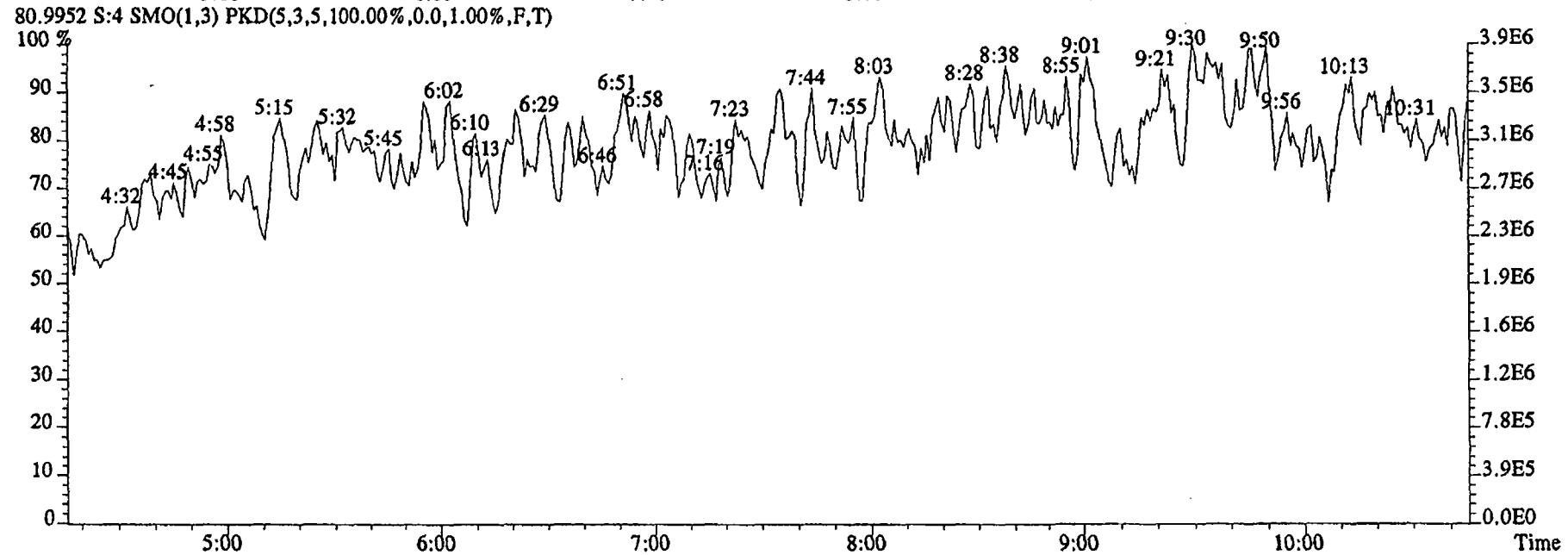
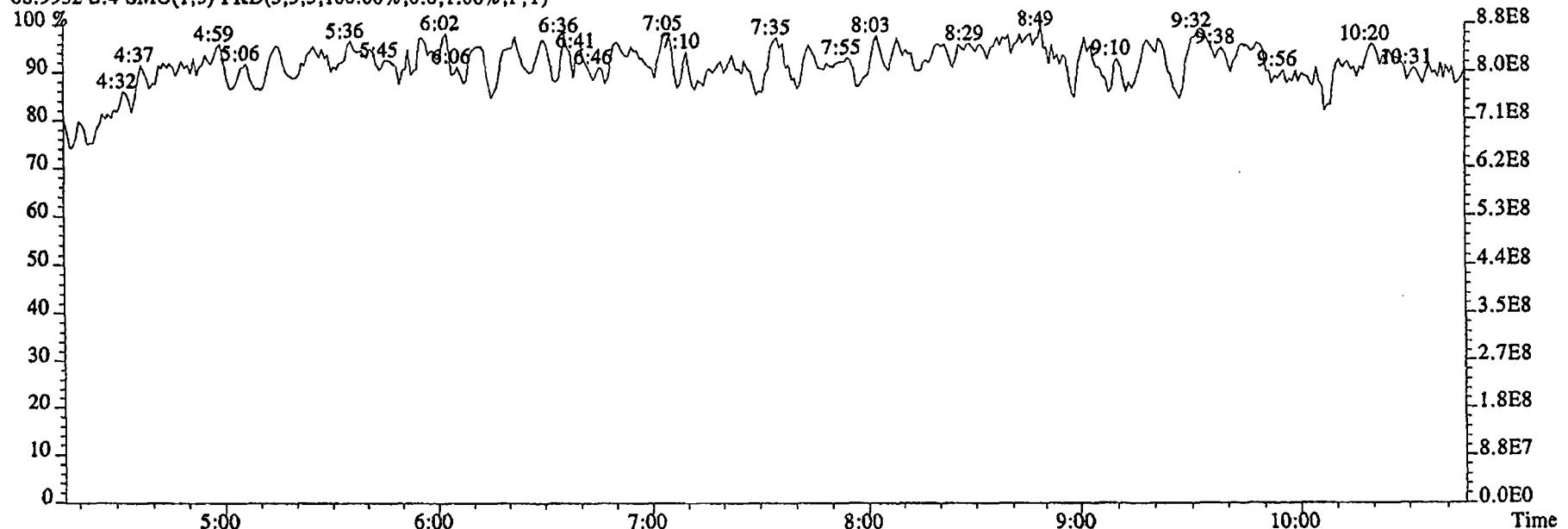
File:16DE045SP #1-592 Acq:16-DEC-2004 19:39:23 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1216C :CS4 2350-68D Exp:NDMAVOA  
113.0032 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1759560.0,1.00%,F,T)



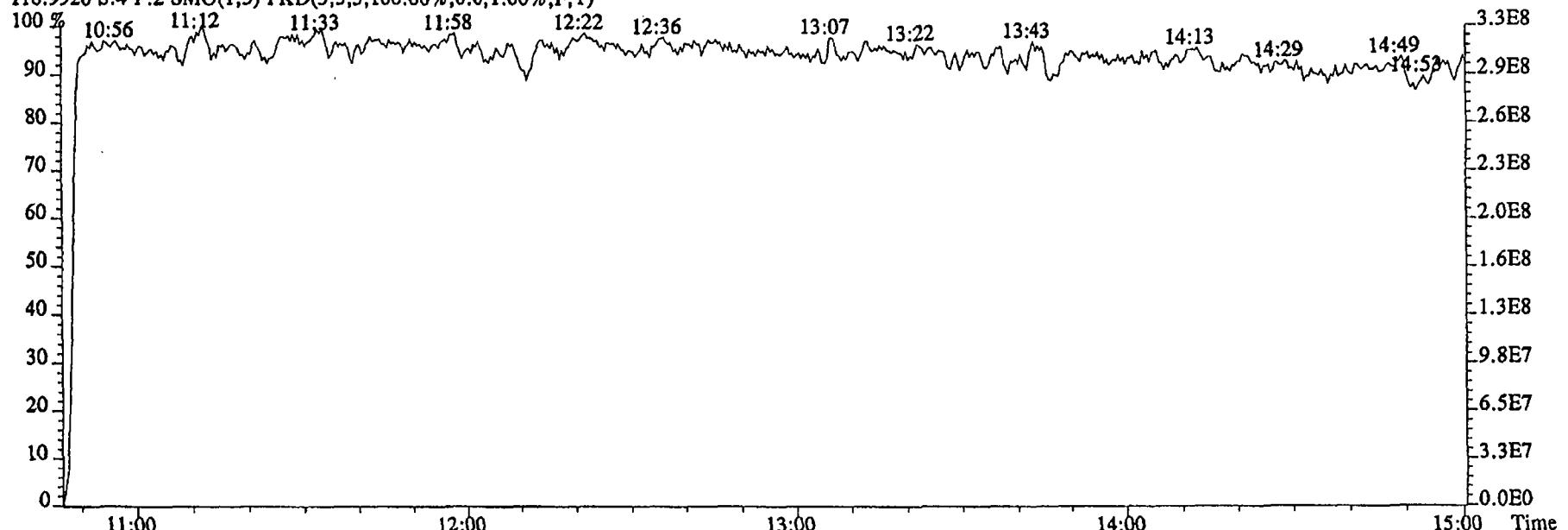
115.0003 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29648.0,1.00%,F,T)



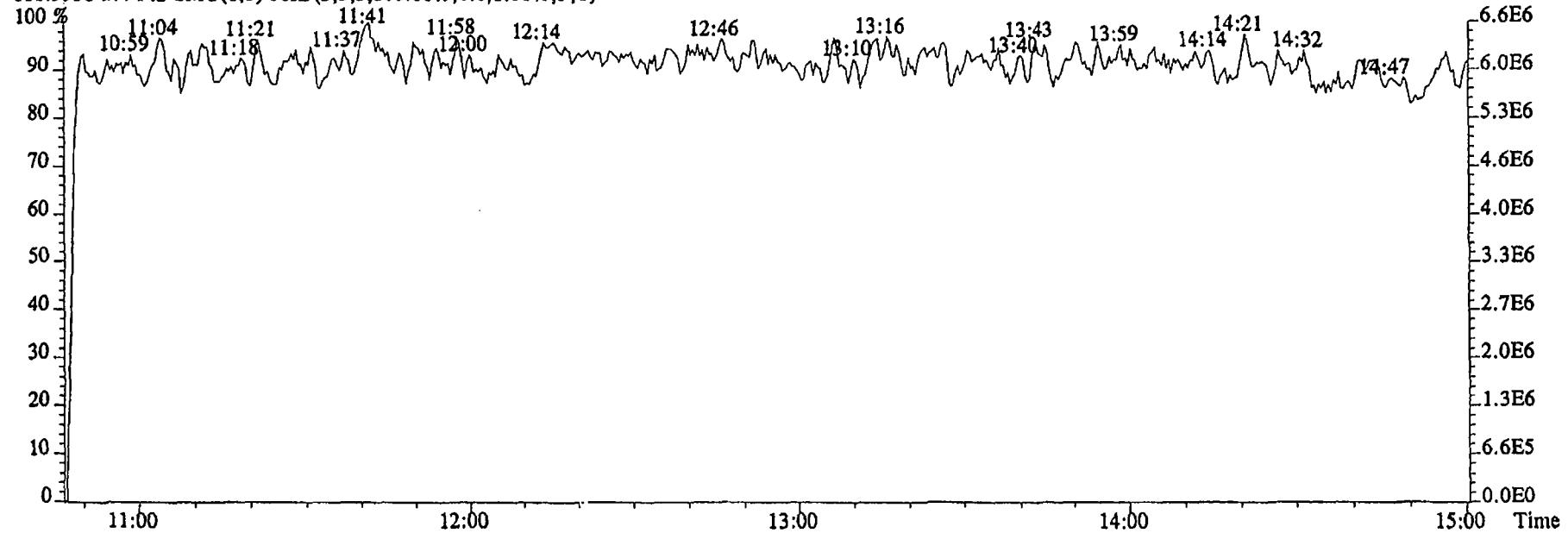
File:16DE045SP #1-480 Acq:16-DEC-2004 19:39:23 GC El+ Voltage SIR 70SE  
 Sample#4 Text:ST1216C :CS4 2350-68D Exp:NDMAVOA  
 68.9952 S:4 SMO(1,3) PKD(S,3,5,100.00%,0.0,1.00%,F,T)



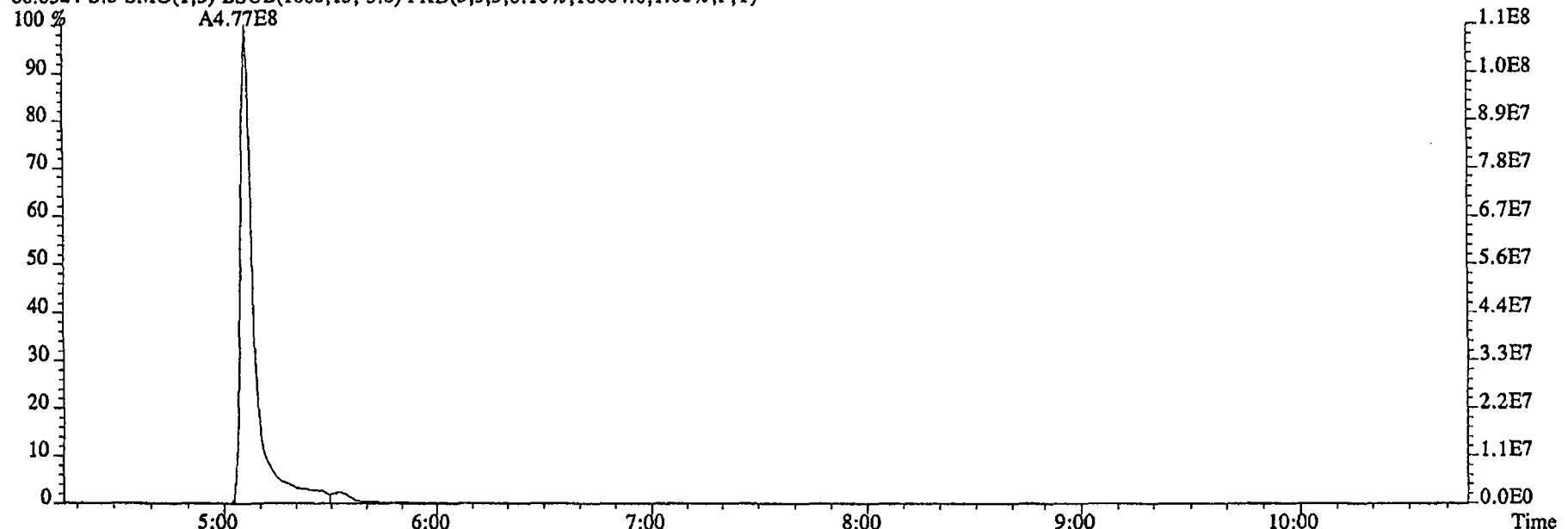
File:16DE045SP #1-592 Acq:16-DEC-2004 19:39:23 GC El+ Voltage SIR 70SE  
Sample#4 Text:ST1216C :CS4 2350-68D Exp:NDMAVOA  
118.9920 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



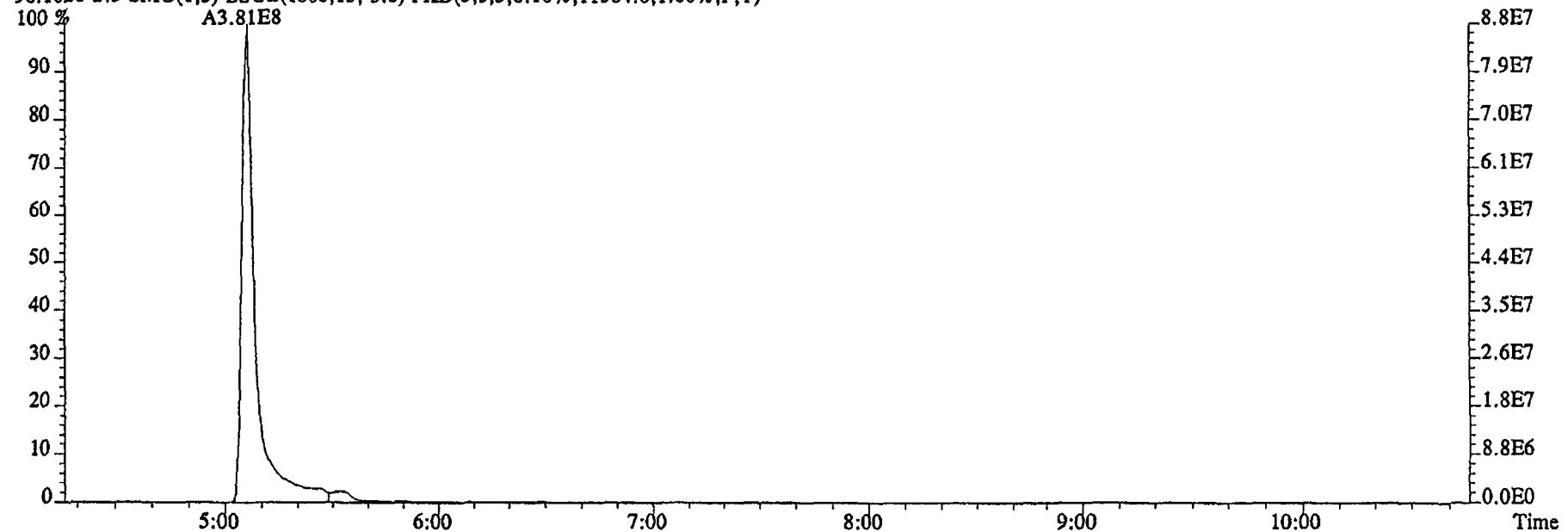
111.9936 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



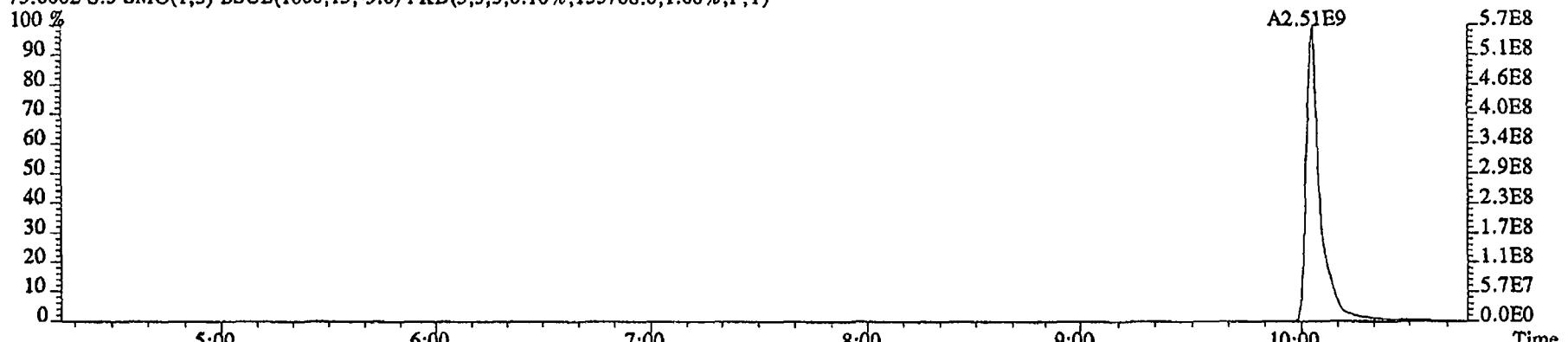
File:16DE045SP #1-480 Acq:16-DEC-2004 19:59:44 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1216D ;CSS 2350-68E Exp:NDMAVOA  
88.0524 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16664.0,1.00%,F,T)



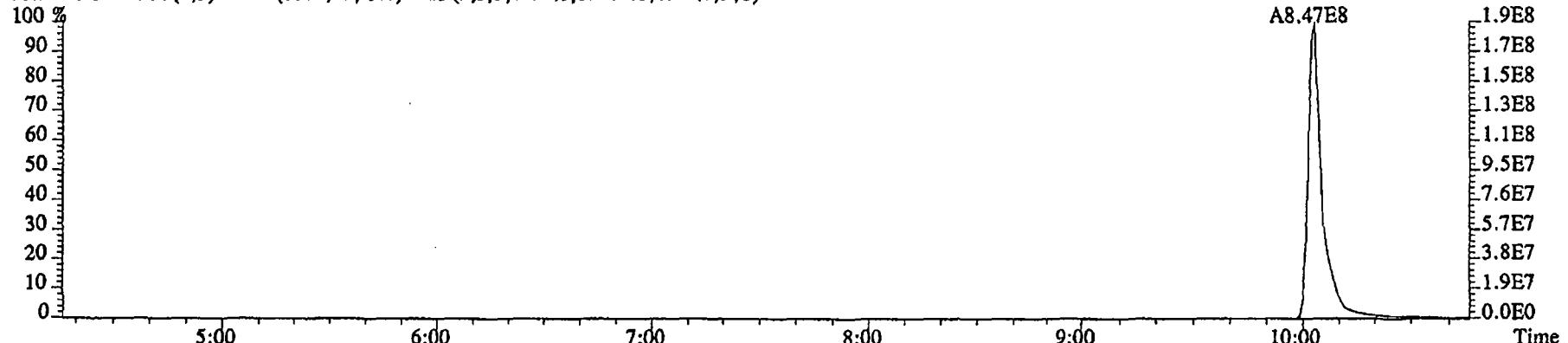
96.1026 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11384.0,1.00%,F,T)



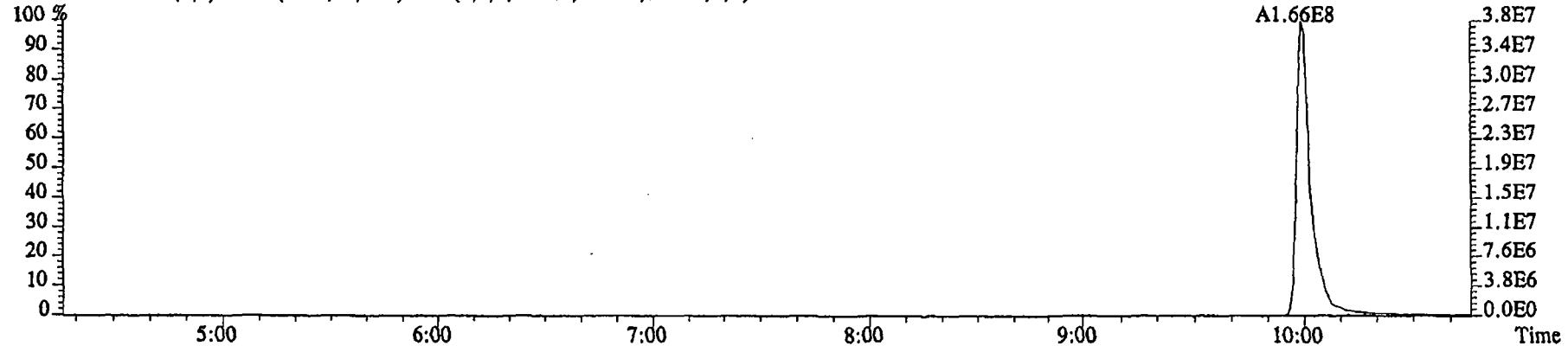
File:16DE04SSP #1-480 Acq:16-DEC-2004 19:59:44 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST1216D :CS5 2350-68E Exp:NDMAVOA  
 75.0002 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,135768.0,1.00%,F,T)



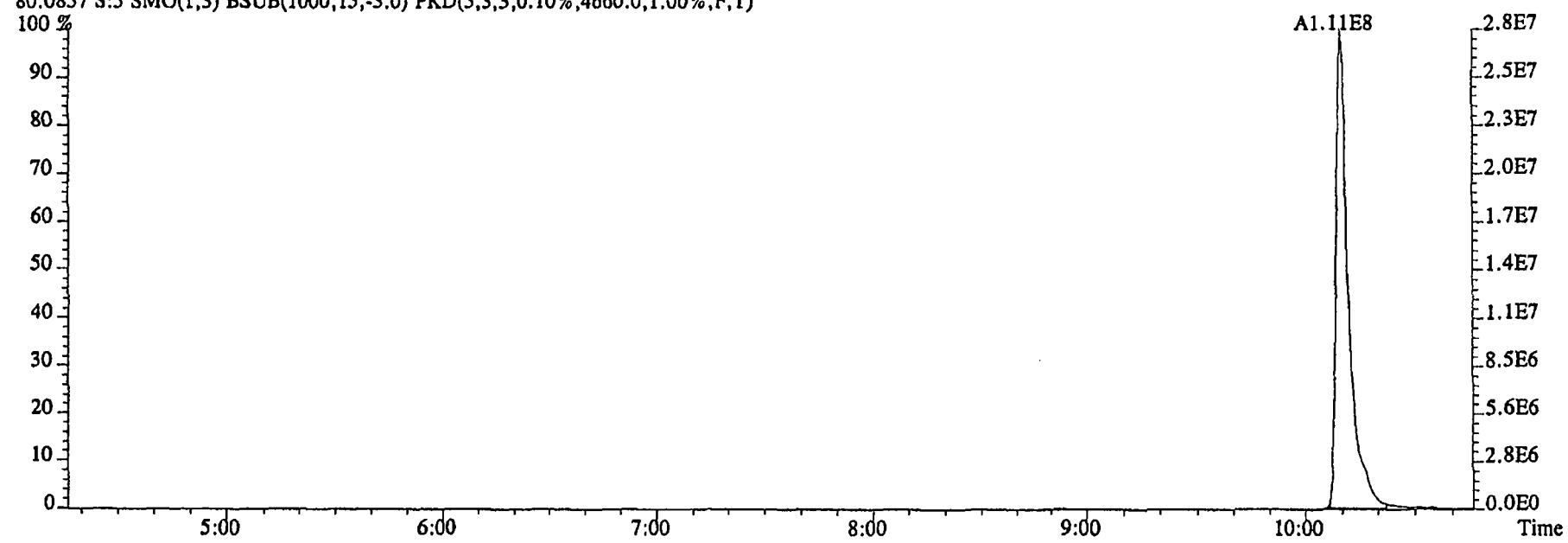
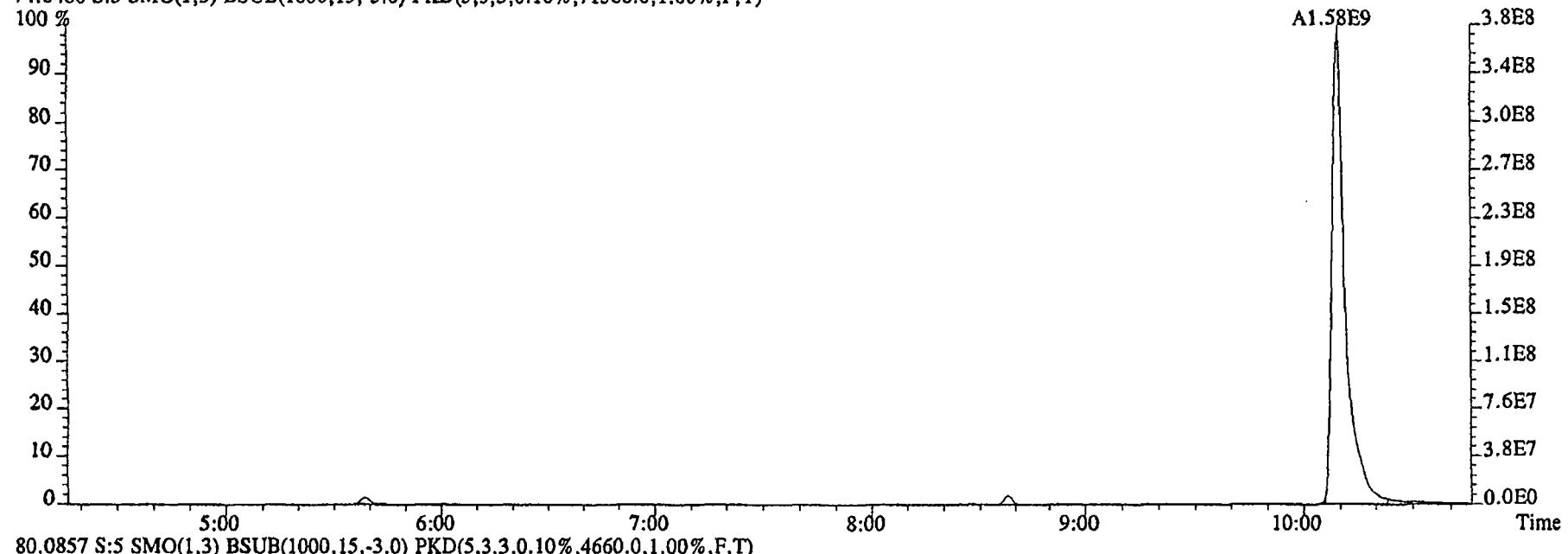
76.9972 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15204.0,1.00%,F,T)



79.0253 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8444.0,1.00%,F,T)



File:16DE045SP #1-480 Acq:16-DEC-2004 19:59:44 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1216D :CS5 2350-68E Exp:NDMAVOA  
74.0480 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,71568.0,1.00%,F,T)

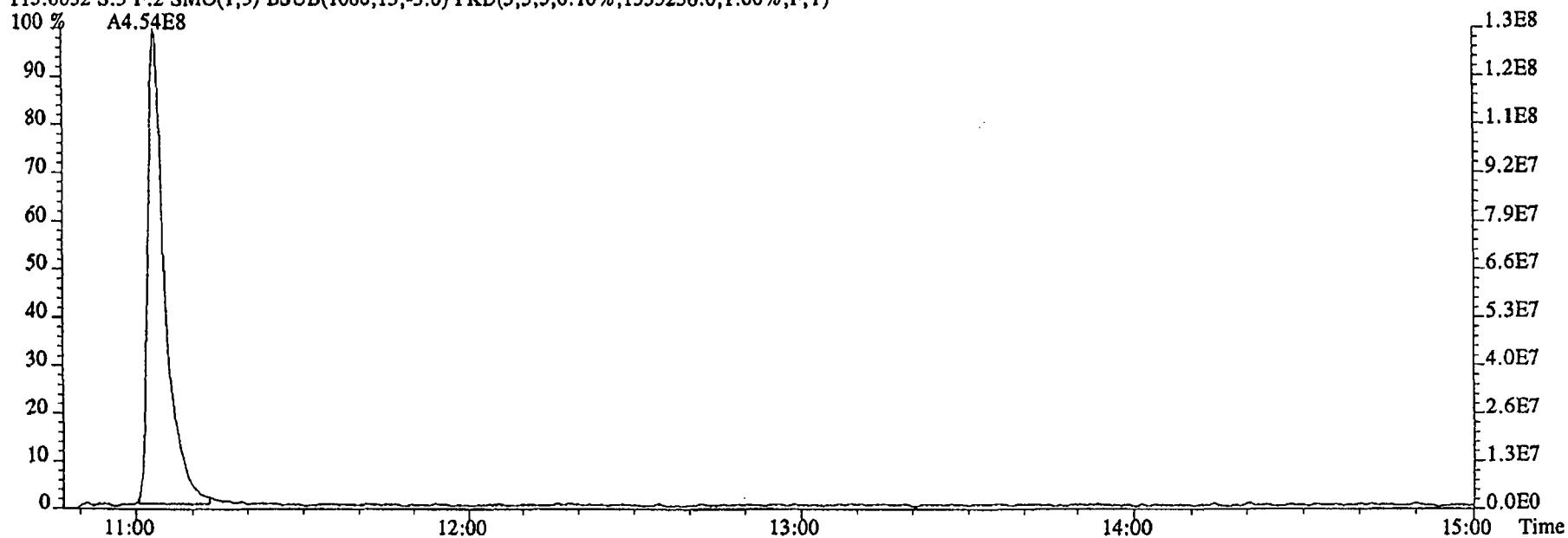


File:16DE045SP #1-590 Acq:16-DEC-2004 19:59:44 GC EI+ Voltage SIR 70SE

Sample#5 Text:ST1216D :CS5 2350-68E Exp:NDMAVOA

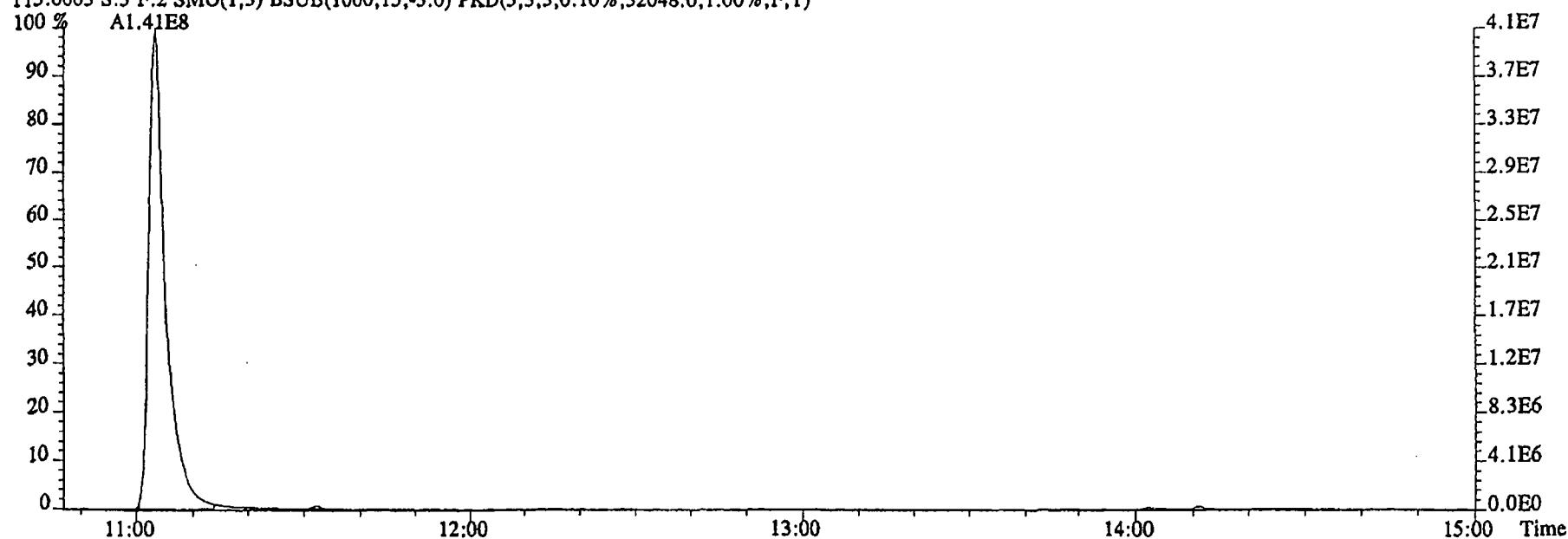
113.0032 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1335256.0,1.00%,F,T)

100 % A4.54E8

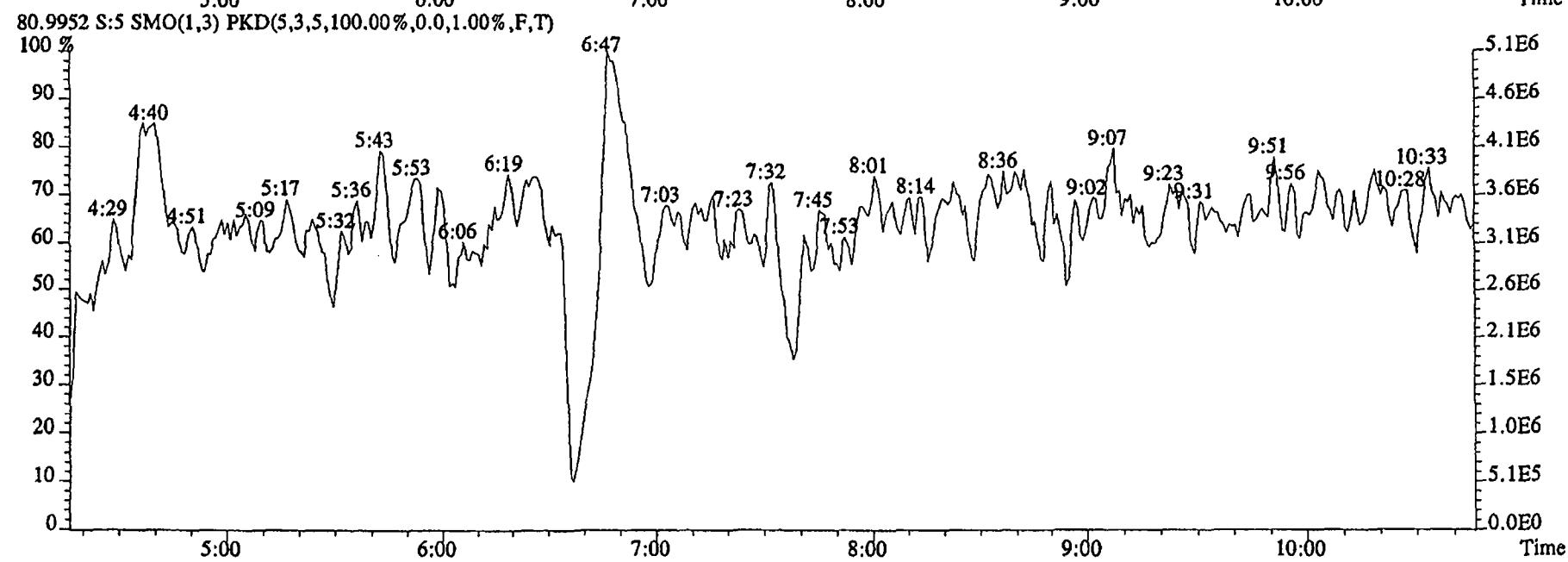
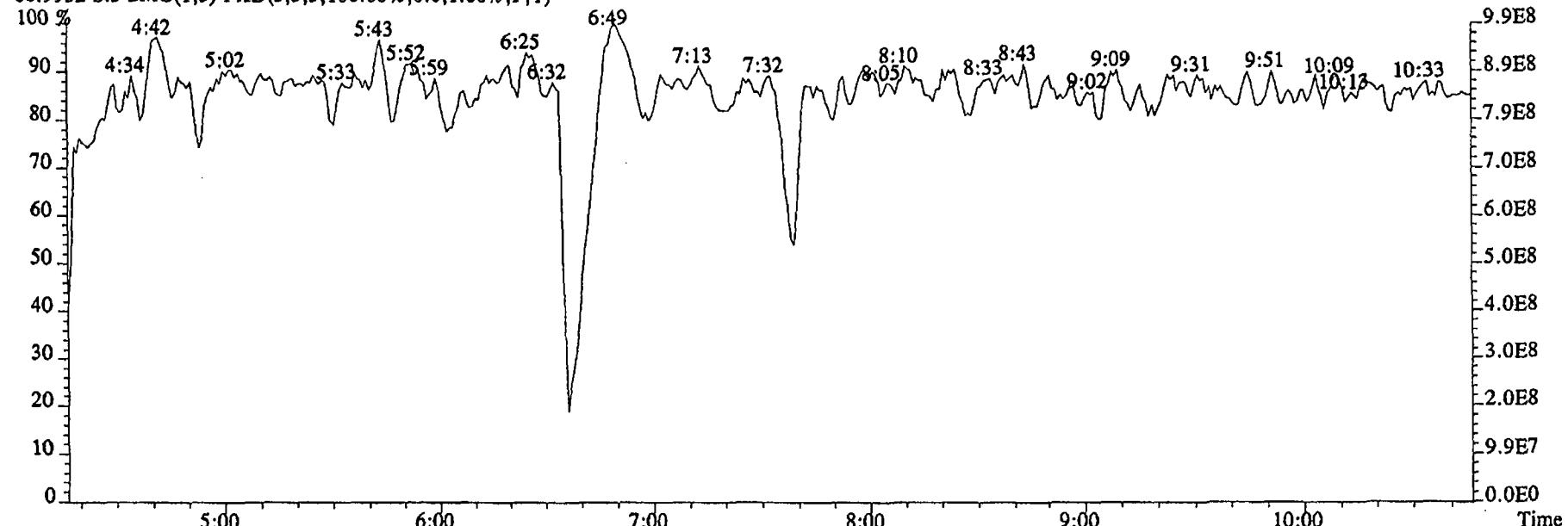


115.0003 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32048.0,1.00%,F,T)

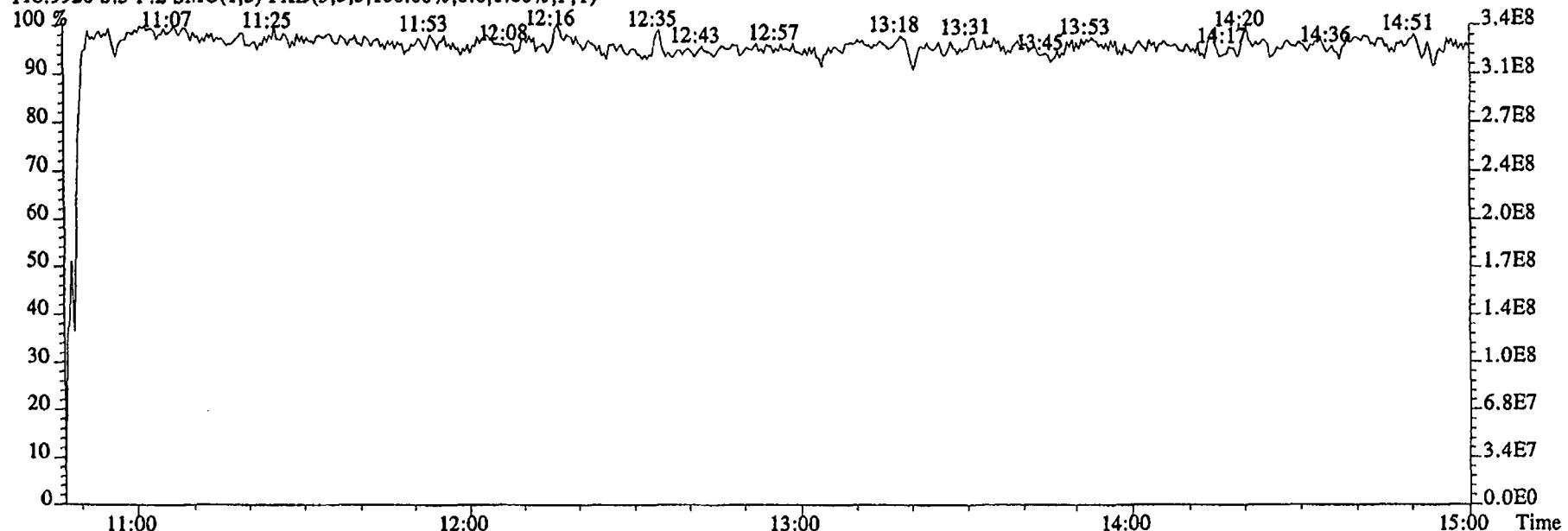
100 % A1.41E8



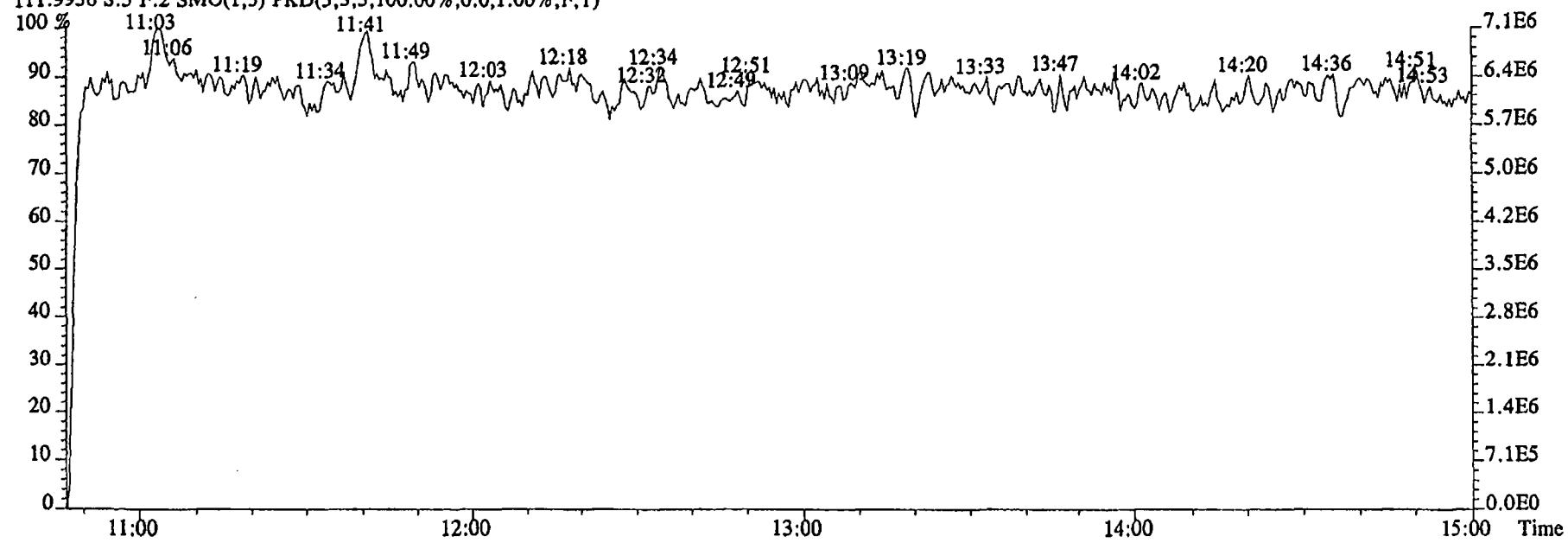
File:16DE045SP #1-480 Acq:16-DEC-2004 19:59:44 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST1216D :CSS 2350-68E Exp:NDMAVOA  
 68.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:16DE045SP #1-590 Acq:16-DEC-2004 19:59:44 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST1216D :CS5 2350-68E Exp:NDMAVOA  
 118.9920 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Initial Calibration Checklist  
High Resolution

ICAL ID 1625 172904 SSP

Method ID 1625 (400)

Column ID CS-2311

Instrument ID SSP

STD ID's ST1229 - ST12290

STD Solution 2350-61A-61E

Analyzed By c pickell

Multiplier Setting .7200

Prepared By c pickell

Date Analyzed 12-29-04

Reviewed By AM

Date Prepared 12-30-04

Date Reviewed 12-30-04

ANALYSIS OF ICAL	INITIATED	REVIEWED
Curve summary present?	/	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	NA	NA
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	/	✓

COMMENTS:

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Method 8290: %RSD  $\leq$  20% for natives,  $\leq$  30% for labeled analytes; S/N  $\geq$  10

Method 1613A: %CV  $\leq$  35% (See Table 7, Method 1613A); S/N  $\geq$  10

Method 23: %RSD  $\leq$  values specified in Table 5, Method 23; S/N  $>$  2.5

PAH: %RSD  $\leq$  30% for natives and labeled compounds; S/N  $\geq$  10

PCB: %RSD  $\leq$  20% for natives,  $\leq$  40% for labeled compounds; S/N  $\geq$  2.5

NCASI 551: %RSD  $\leq$  20% for natives and labeled compounds;  $\geq$  5

DBD/DBF: %RSD  $\leq$  30% for natives,  $\leq$  40% for labeled analytes; S/N  $\geq$  10

Run: CP                  Analyte: 1625                  Cal: 16251229045SP

	CS1 2350-68A	CS2 2350-68B	CS3 2350-68C	CS4 2350-68D	CS5 2350-68E	29DE045SP	29DE045SP	29DE045SP	29DE045SP	29DE045SP
Name	Mean	S. D.	%RSD	-	-	S1	S2	S3	S4	S5
2-Chloropyridine	-	-	- %	-	-	-	-	-	-	-
D8-1,4-Dioxane	1.109	0.124	11.2 %	1.16	1.20	1.23	0.99	0.97		
1,4-Dioxane	1.890	0.233	12.3 %	1.73	1.85	1.65	1.98	2.24		
D5-123-TriChloroPropane	2.685	0.728	27.1 %	1.76	2.19	2.94	2.91	3.63		
1,2,3-TriChloroPropane	0.439	0.039	8.78 %	0.48	0.47	0.40	0.45	0.40		
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-	-	-
D6-NDMA	1.682	0.384	22.8 %	1.23	1.39	1.81	1.78	2.21		
NDMA	1.368	0.111	8.14 %	1.54	1.39	1.27	1.36	1.28		
2-Chloropyridine	-	-	- %	-	-	-	-	-	-	-

Run #1   Filename 29DE045SP   S: 1   I: 1  
 Acquired: 29-DEC-04 13:31:25                  Processed: 29-DEC-04 15:20:22  
 Run: CP    Analyte: 1625                                      Cal: 16251229045SP  
 Comments:

Sample text: CS1 2350-68A

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	43931900		11:07	-	200.00	n
D8-1,4-Dioxane	255280000		5:08	1.16	1000.00	n
1,4-Dioxane	883662		5:08	1.73	2.00	n
D5-123-TriChloroPropane	38606100		10:02	1.76	100.00	n
1,2,3-TriChloroPropane	371892		10:06	0.48	2.00	n
1,2,3-TriChloroPropane	1083540		10:06	-	2.00	n
D6-NDMA	27059200		10:14	1.23	100.00	n
NDMA	835410		10:13	1.54	2.00	y
2-Chloropyridine	137336000		11:07	-	200.00	n

Run #2   Filename 29DE045SP   S: 2   I: 1  
 Acquired: 29-DEC-04 13:51:41                  Processed: 29-DEC-04 15:20:23  
 Run: CP    Analyte: 1625                                      Cal: 16251229045SP  
 Comments:  
 Sample text: CS2 2350-68B

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	36619300		11:06	-	200.00	n
D8-1,4-Dioxane	220296000		5:09	1.20	1000.00	n
1,4-Dioxane	4065020		5:09	1.85	10.00	y
D5-123-TriChloroPropane	40043400		10:03	2.19	100.00	n
1,2,3-TriChloroPropane	1878290		10:06	0.47	10.00	n
1,2,3-TriChloroPropane	5780820		10:06	-	10.00	n
D6-NDMA	25406600		10:13	1.39	100.00	n
NDMA	3536450		10:12	1.39	10.00	n
2-Chloropyridine	114393000		11:07	-	200.00	n

Run #3   Filename 29DE045SP   S: 3   I: 1  
 Acquired: 29-DEC-04 14:12:03                  Processed: 29-DEC-04 15:20:23  
 Run: CP    Analyte: 1625                                      Cal: 16251229045SP  
 Comments:

Sample text: CS3 2350-68C

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	32991000		11:07	-	200.00	n
D8-1,4-Dioxane	202800000		5:09	1.23	1000.00	n
1,4-Dioxane	16745100		5:09	1.65	50.00	y
D5-123-TriChloroPropane	48555000		10:03	2.94	100.00	n
1,2,3-TriChloroPropane	9638120		10:06	0.40	50.00	n
1,2,3-TriChloroPropane	30734100		10:07	-	50.00	n
D6-NDMA	29834500		10:13	1.81	100.00	n
NDMA	18947600		10:13	1.27	50.00	n
2-Chloropyridine	105319000		11:07	-	200.00	n

Run #4   Filename 29DE045SP   S: 4   I: 1  
 Acquired: 29-DEC-04 14:32:28   Processed: 29-DEC-04 15:20:23  
 Run: CP                   Analyte: 1625   Cal: 16251229045SP  
 Comments:  
 Sample text: CS4 2350-68D

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	37422400		11:07	-	200.00	n
D8-1,4-Dioxane	184403000		5:08	0.99	1000.00	n
1,4-Dioxane	72953900		5:08	1.98	200.00	n
D5-123-TriChloroPropane	54362300		10:02	2.91	100.00	n
1,2,3-TriChloroPropane	48462000		10:06	0.45	200.00	n
1,2,3-TriChloroPropane	155601000		10:06	-	200.00	n
D6-NDMA	33276800		10:14	1.78	100.00	n
NDMA	90306800		10:13	1.36	200.00	n
2-Chloropyridine	120379000		11:07	-	200.00	n

Run #5   Filename 29DE045SP   S: 5   I: 1  
 Acquired: 29-DEC-04 14:52:54                  Processed: 29-DEC-04 15:20:24  
 Run: CP    Analyte: 1625                                      Cal: 16251229045SP  
 Comments:  
 Sample text: CS5 2350-68E

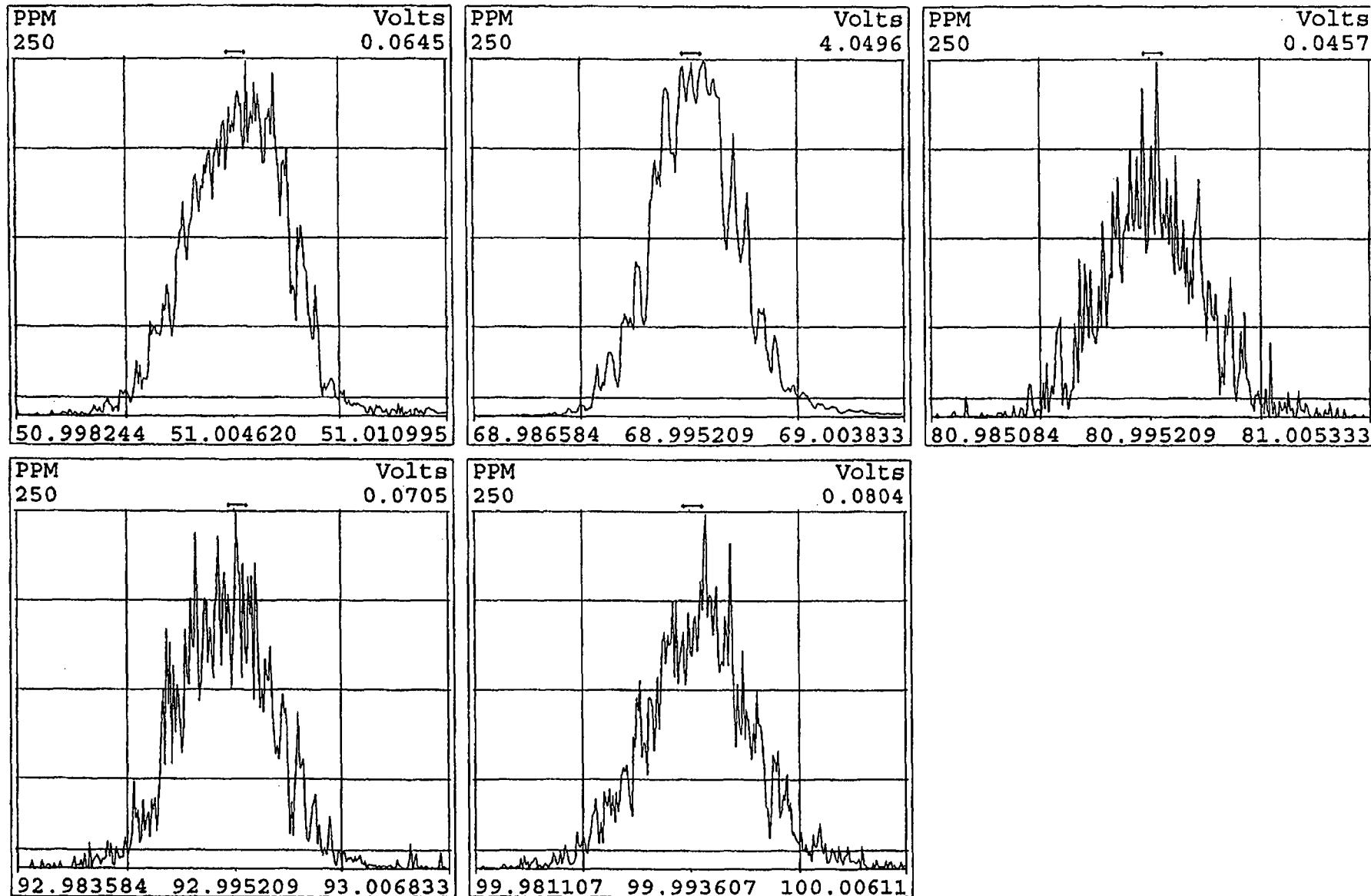
Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	34836700		11:07	-	200.00	n
D8-1,4-Dioxane	168307000		5:08	0.97	1000.00	n
1,4-Dioxane	377465000		5:09	2.24	1000.00	n
D5-123-TriChloroPropane	63242900		10:02	3.63	100.00	n
1,2,3-TriChloroPropane	253903000		10:06	0.40	1000.00	n
1,2,3-TriChloroPropane	819992000		10:06	-	1000.00	n
D6-NDMA	38415600		10:14	2.21	100.00	n
NDMA	490177000		10:13	1.28	1000.00	n
2-Chloropyridine	110629000		11:07	-	200.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
29DE045SP	1	ST1229	CS1 2350-68A				1.000	
29DE045SP	2	ST1229A	CS2 2350-68B				1.000	
29DE045SP	3	ST1229B	CS3 2350-68C				1.000	
29DE045SP	4	ST1229C	CS4 2350-68D				1.000	
29DE045SP	5	ST1229D	CS5 2350-68E				1.000	
29DE045SP	6	SB1229	Solvent Blank DCM				1.000	
29DE045SP	7	G0XDP-1-AAB	G4L080479-1MB	500	1625/WATER	VS54	1.000	L
29DE045SP	8	G0XDP-1-ACC	G4L080479-1LCS	500	1625/WATER		1.000	L
29DE045SP	9	G1NWF-1-AAB	G4L080479-1MBRX	500	1625/WATER	VS56	1.000	L
29DE045SP	10	G1NWF-1-ACC	G4L080479-1LCSRX	500	1625/WATER		1.000	L
29DE045SP	11	G0K68-2-AC	G4L080479-1RX	500	1625/WATER		0.974	L
29DE045SP	12	G0K69-2-AC	G4L080479-2RX	500	1625/WATER		0.972	L
29DE045SP	13	G0K7A-2-AC	G4L080479-3RX	500	1625/WATER		0.652	L
29DE045SP	14	G0K7D-2-AC	G4L080479-4RX	500	1625/WATER		0.933	L
29DE045SP	15	G0K7E-2-AC	G4L080479-5RX	500	1625/WATER		0.928	L
29DE045SP	16	G0K7F-2-AC	G4L080479-6RX	500	1625/WATER		0.896	L
29DE045SP	17	G1J3M-1-AAB	E4L140212-4MB	500	1625/WATER		1.000	L
29DE045SP	18	G1J3M-1-ACC	E4L140212-4LCS	500	1625/WATER		1.000	L
29DE045SP	19	G01DV-1-AA	E4L140212-4	500	1625/WATER		1.034	L
29DE045SP	20	G01FC-1-AA	E4L140212-6	500	1625/WATER		1.056	L
29DE045SP	21	G06AP-1-AA	E4L150369-17	500	1625/WATER		1.038	L
29DE045SP	22	G1J3M-1-ADL	E4L150369-17LCS	500	1625/WATER		1.000	L
29DE045SP	23	G0PC2-2-AC	G4L090480-1RX	500	1625/WATER		0.973	L
29DE045SP	24	G0PC4-2-AC	G4L090480-2RX	500	1625/WATER		0.976	L
29DE045SP	25	G0PC5-2-AC	G4L090480-3RX	500	1625/WATER		0.985	L
29DE045SP	26	G0R14-2-AA	G4L100385-5RX	500	1625/WATER		0.915	L
29DE045SP	27	G0MLW-2-AA	G4L090264-1RX	500	1625/WATER		0.970	L
29DE045SP	28	G1WH4-1-AAB	G4L220361-1MB	500	1625/WATER		1.000	L
29DE045SP	29	G1WH4-1-ACC	G4L220361-1LCS	500	1625/WATER		1.000	L
29DE045SP	30	G1WH4-1-ADL	G4L220361-1DCS	500	1625/WATER		1.000	L
29DE045SP	31	G1PVH-1-AA	G4L220361-1	500	1625/WATER		0.976	L
29DE045SP	32	SB1229A	Solvent Blank DCM				1.000	
29DE045SP	33	ST1229E	CS3 2350-68C				1.000	
29DE045SP	34	SB1229B	Solvent Blank DCM				1.000	
29DE045SP	35	G1J3M-1-AAB	E4L140212-4MB (2X)	1000	1625/WATER	VS56	1.000	L
29DE045SP	36	G1J3M-1-ACC	E4L140212-4LCS (2X)	1000	1625/WATER		1.000	L
29DE045SP	37	G01DV-1-AA	E4L140212-4 (2X)	1000	1625/WATER		1.034	L
29DE045SP	38	G01FC-1-AA	E4L140212-6 (2X)	1000	1625/WATER		1.056	L
29DE045SP	39	G1J3M-1-ADL	E4L150369-17LCS (2X)	1000	1625/WATER		1.000	L
29DE045SP	40						1.000	
29DE045SP	41						1.000	
29DE045SP	42						1.000	
29DE045SP	43						1.000	
29DE045SP	44						1.000	
29DE045SP	45						1.000	
29DE045SP	46		CP, AM 12-29-04				1.000	
29DE045SP	47						1.000	

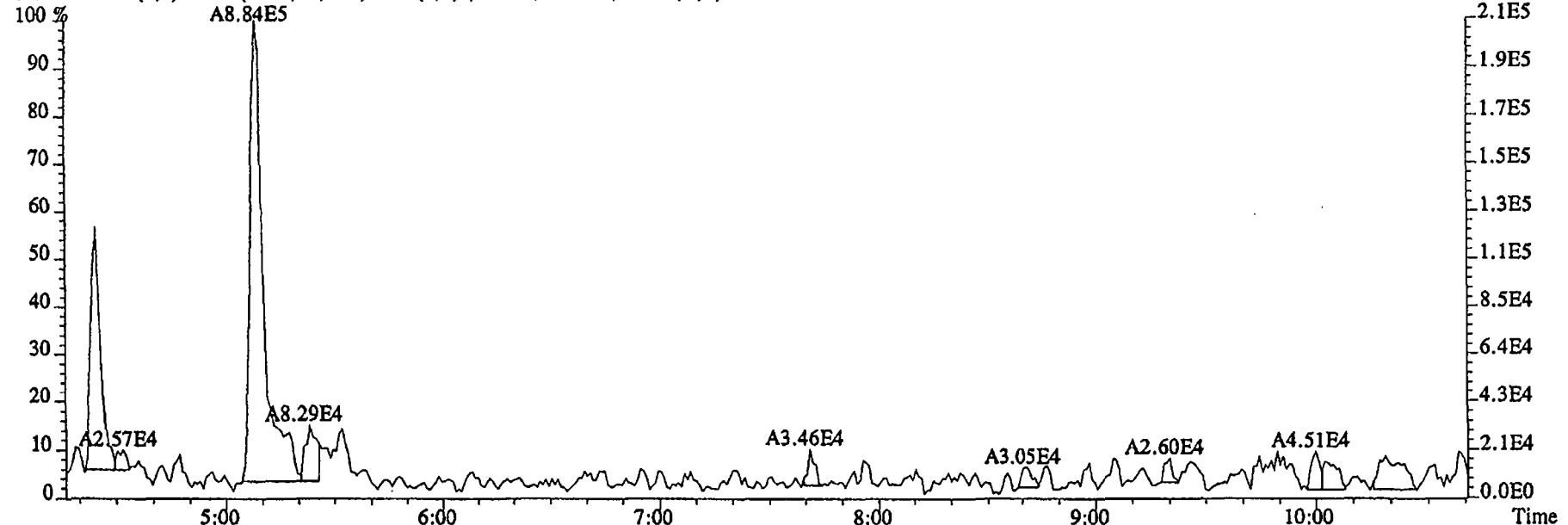
Legend: C = Control  
 (2-3) = (2-3) times control

0/1

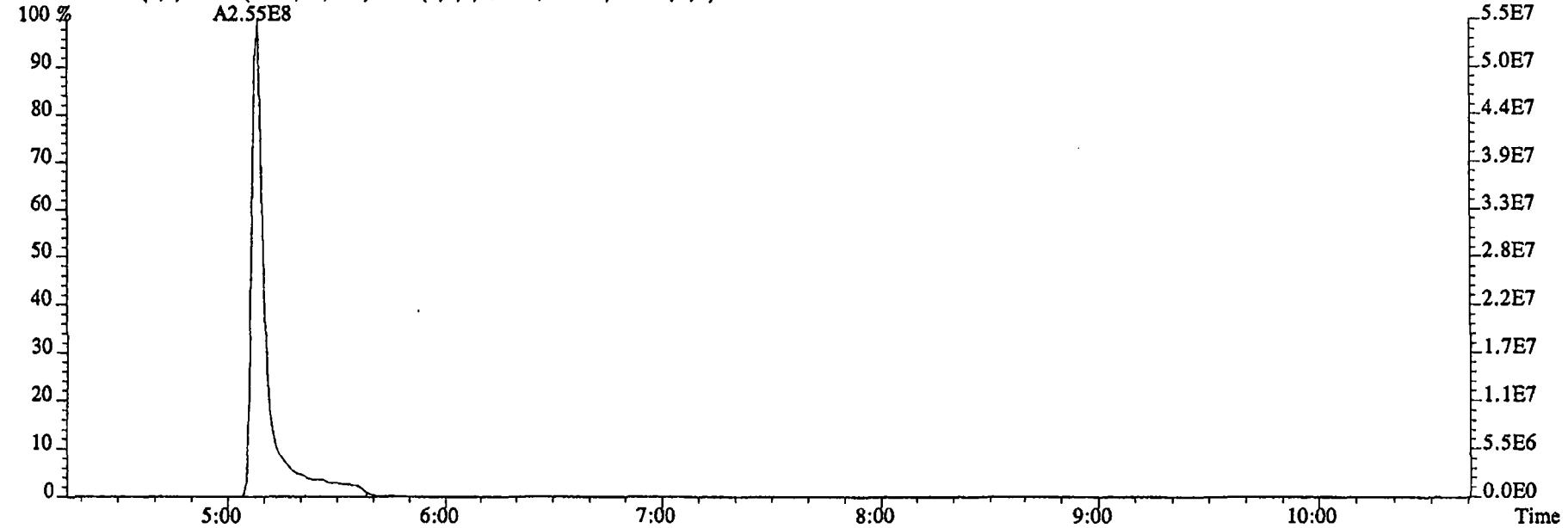
Peak Locate Examination:29-DEC-2004:13:29 File:29DE045SP  
Experiment:NDMAVOA Function:1 Reference:PFK



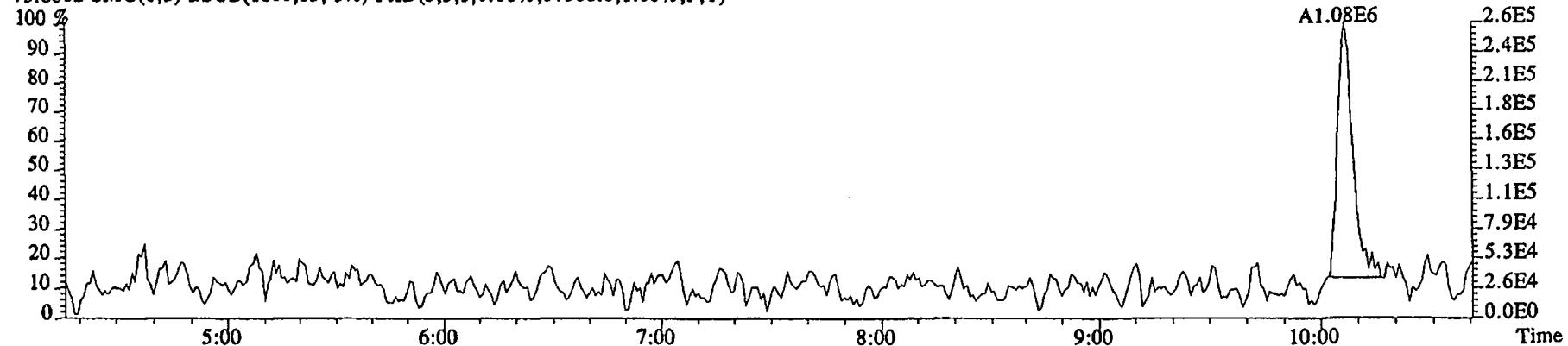
File:29DE045SP #1-474 Acq:29-DEC-2004 13:31:25 GC EI + Voltage SIR 70SE  
 Sample#1 Text:ST1229 :CS1 2350-68A Exp:NDMAVOA  
 88.0524 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10068.0,1.00%,F,T)



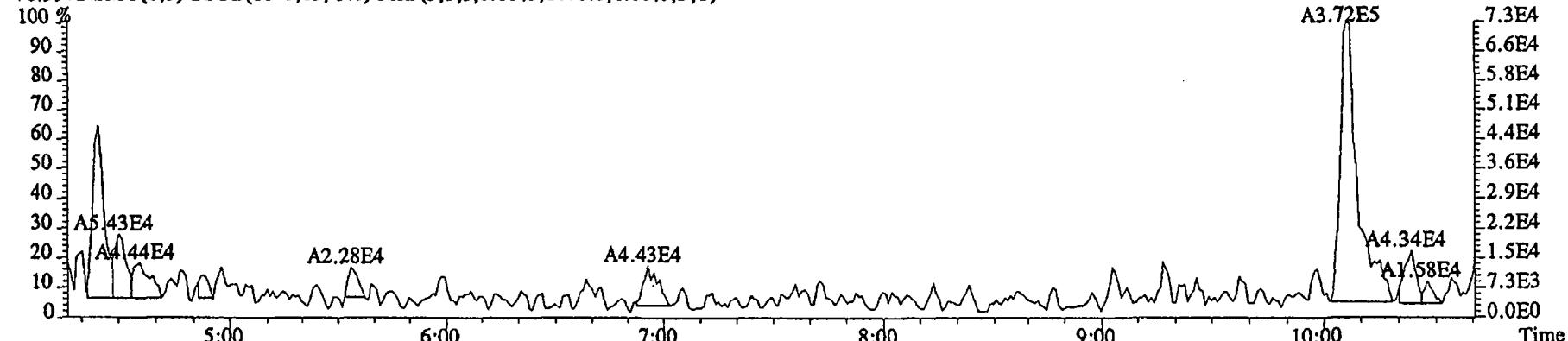
96.1026 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6484.0,1.00%,F,T)



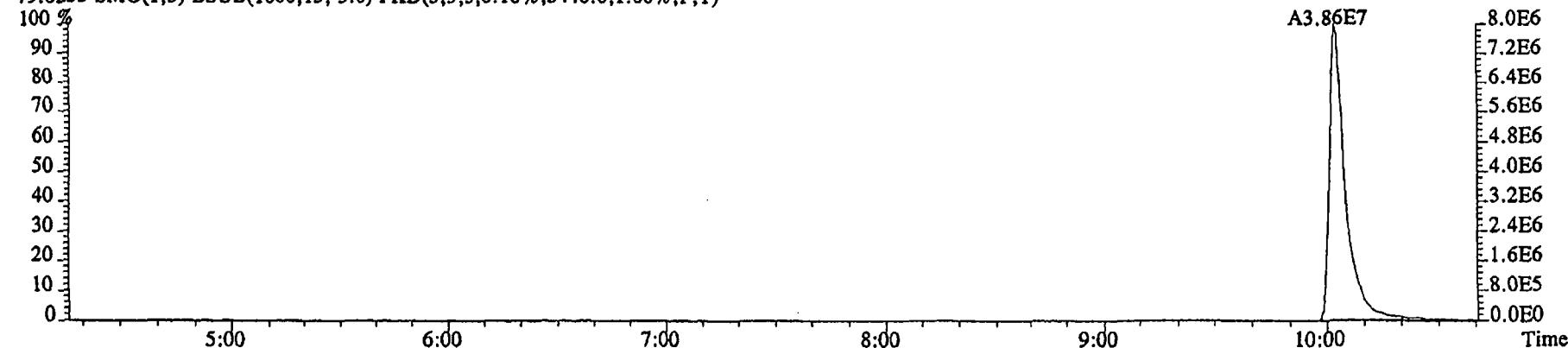
File:29DE045SP #1-474 Acq:29-DEC-2004 13:31:25 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:ST1229 :CS1 2350-68A Exp:NDMAVOA  
 75.0002 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37308.0,1.00%,F,T)



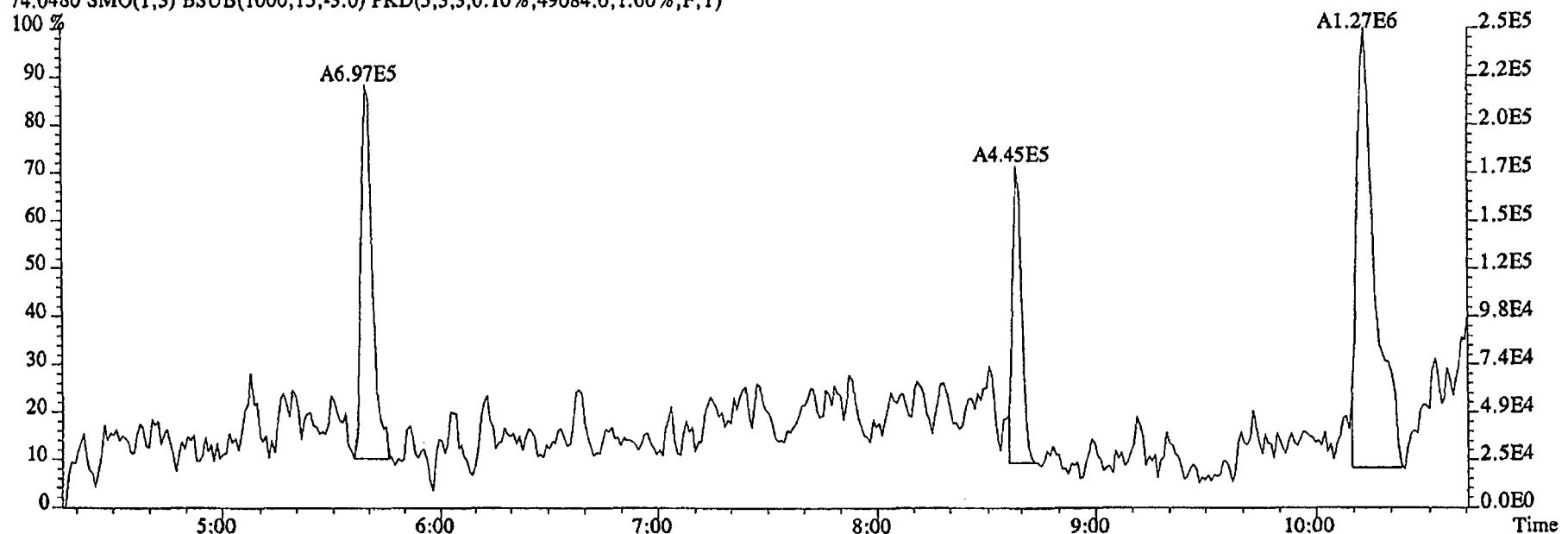
76.9972 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6076.0,1.00%,F,T)



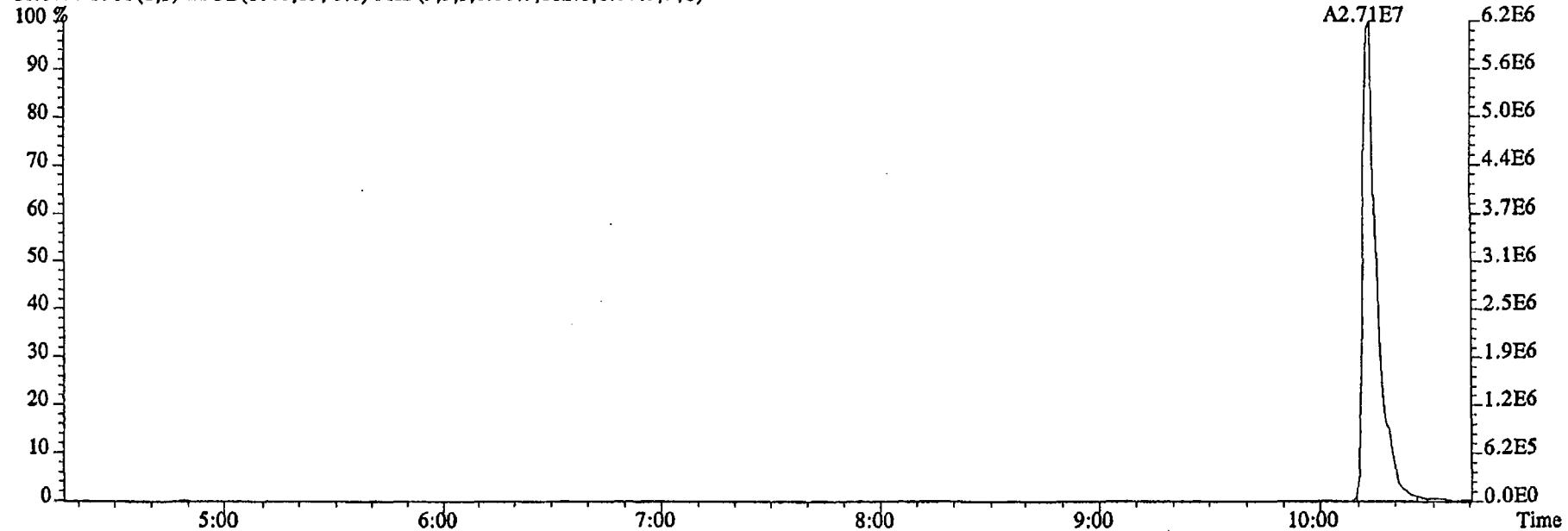
79.0253 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5440.0,1.00%,F,T)



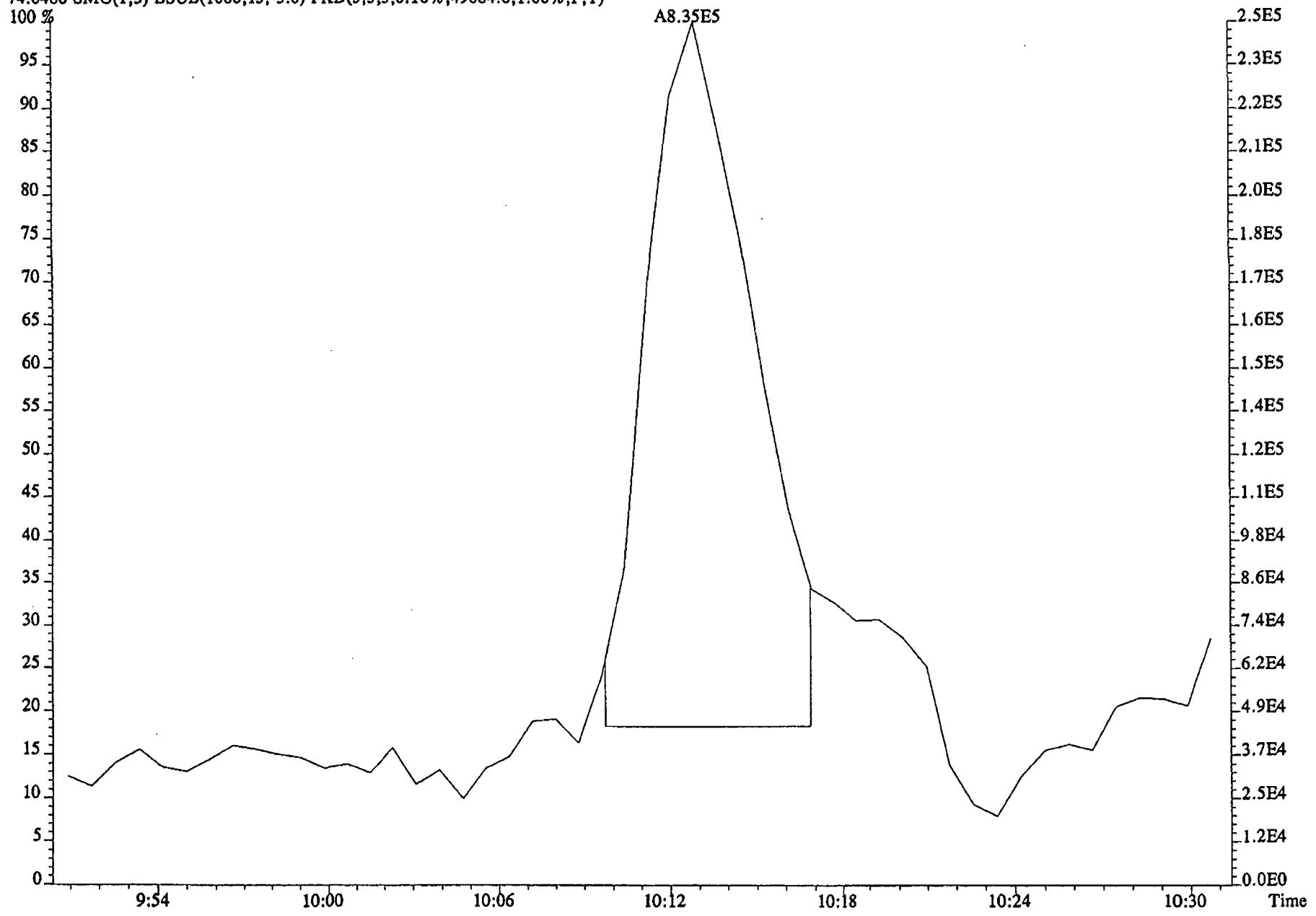
File:29DE045SP #1-474 Acq:29-DEC-2004 13:31:25 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1229 ;CS1 2350-68A Exp:NDMAVOA  
74.0480 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,49084.0,1.00%,F,T)



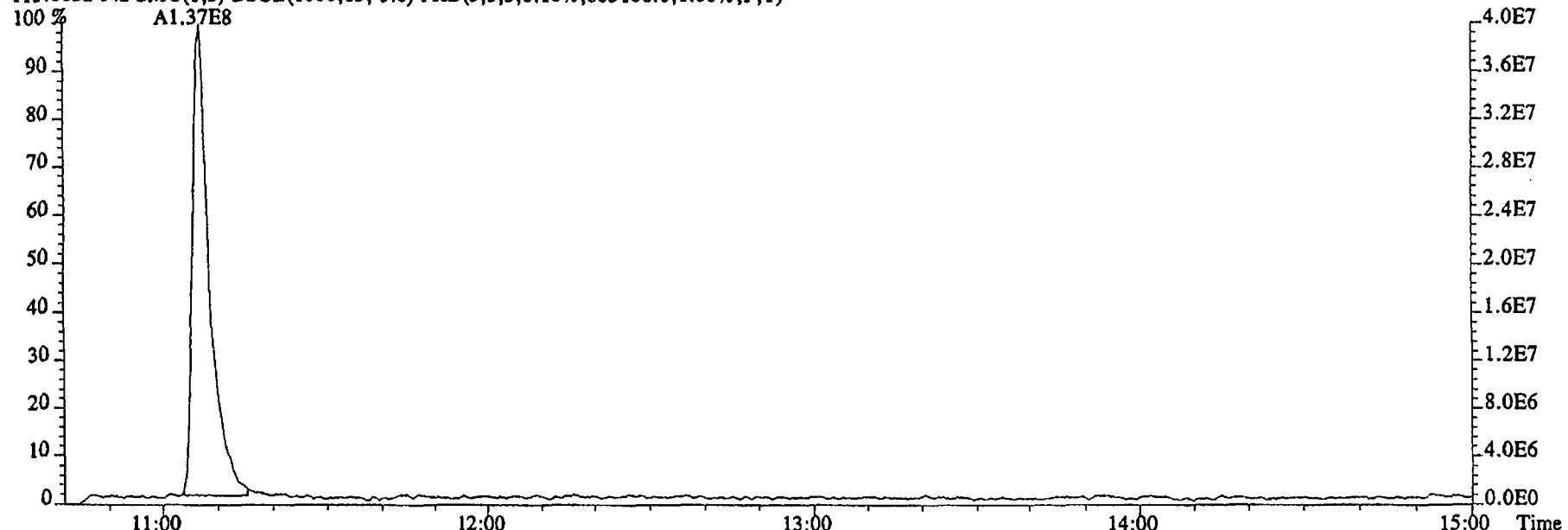
80.0857 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,612.0,1.00%,F,T)



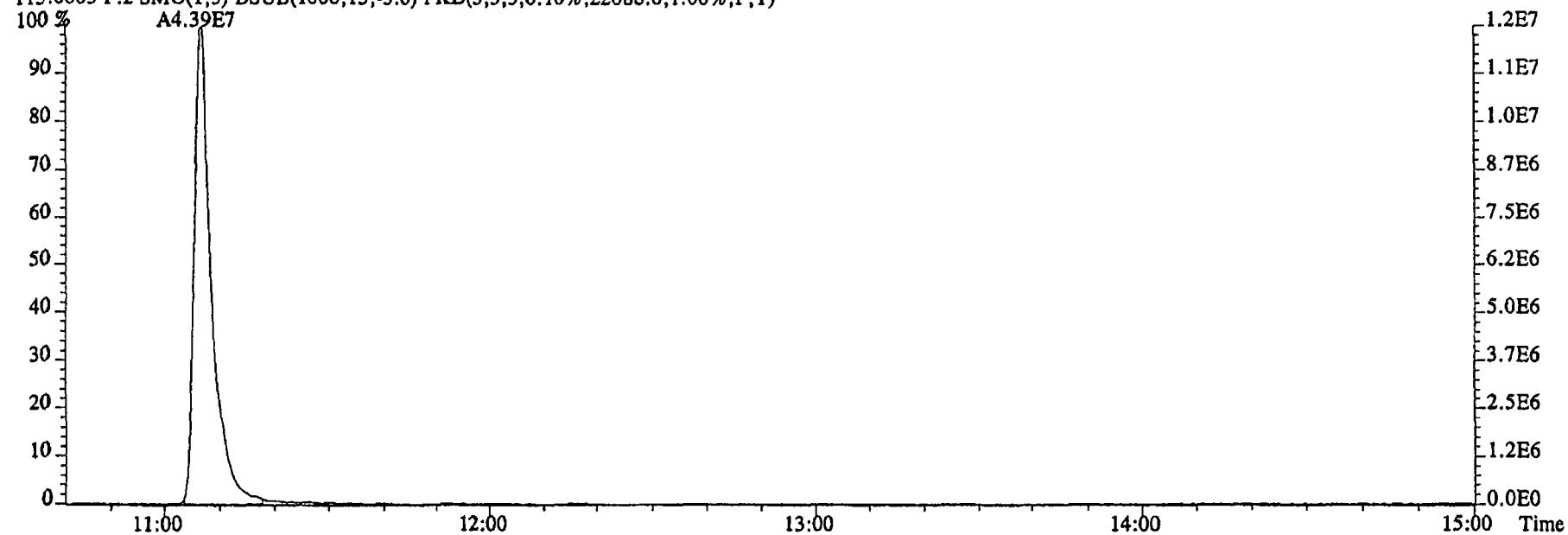
File:29DE04SSP #1-474 Acq:29-DEC-2004 13:31:25 GC EI+ Voltage SIR 70SE  
Sample#1 Exp:NDMAVOA  
74.0480 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,49084.0,1.00%,F,T)



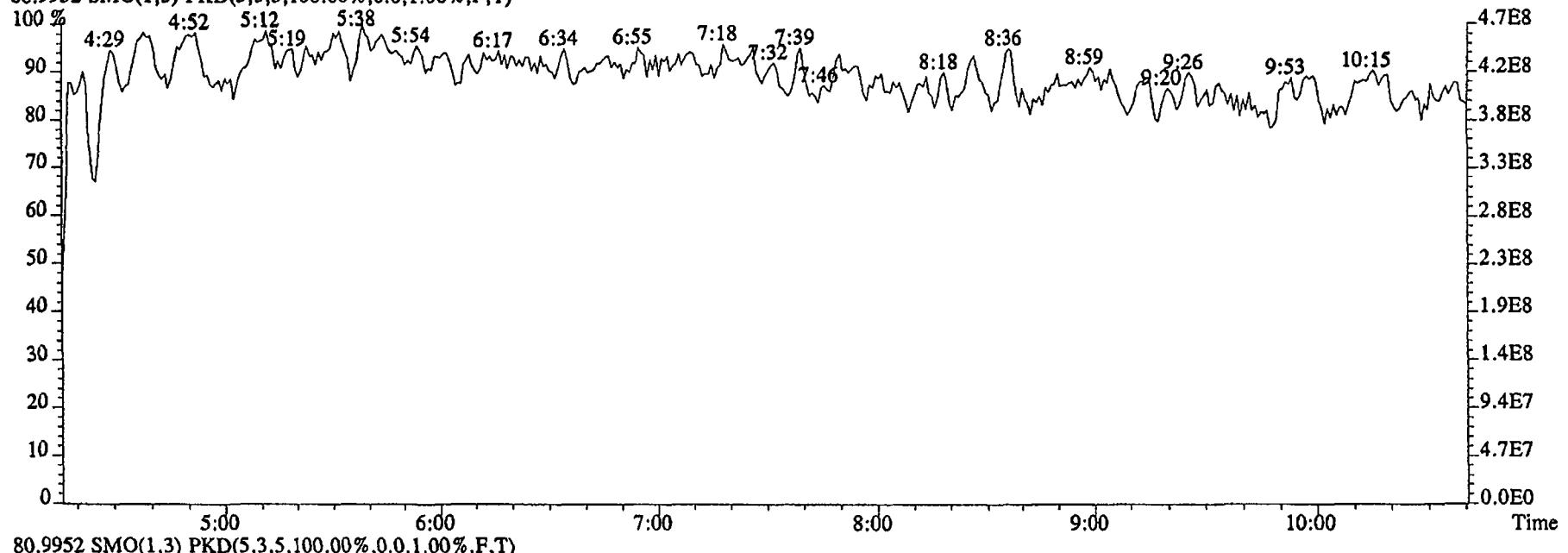
File:29DE045SP #1-602 Acq:29-DEC-2004 13:31:25 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1229 :CS1 2350-68A Exp:NDMAVOA  
113.0032 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,805188.0,1.00%,F,T)



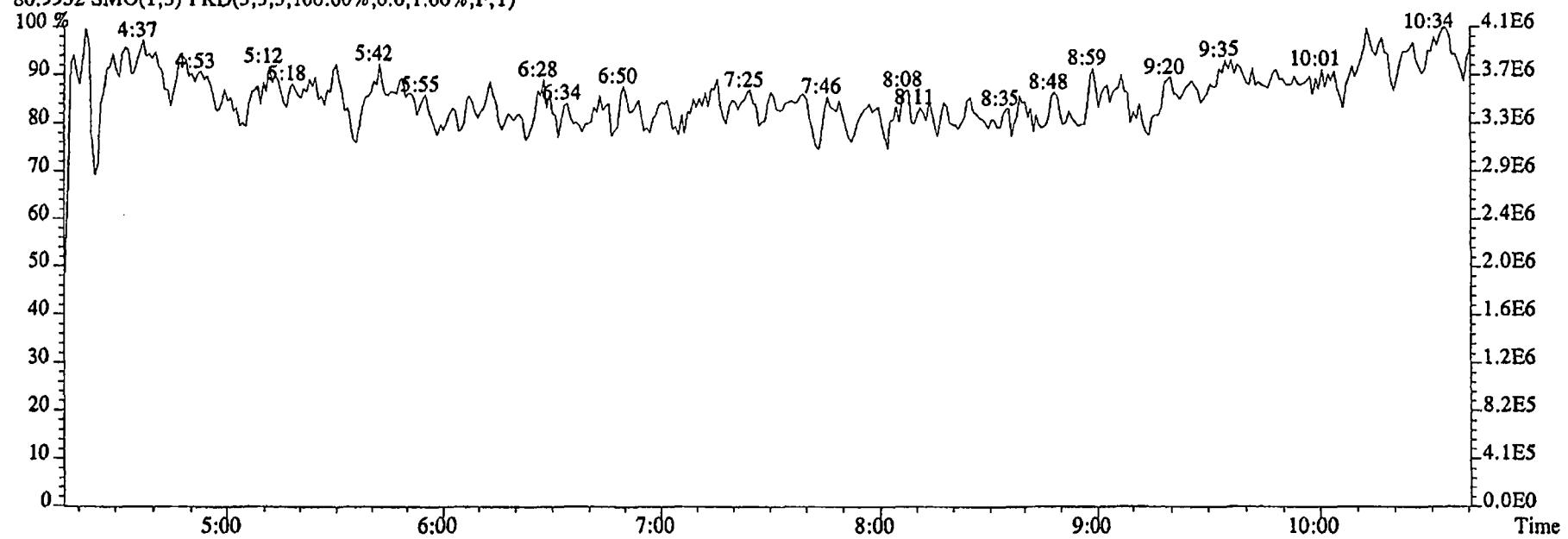
115.0003 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22088.0,1.00%,F,T)



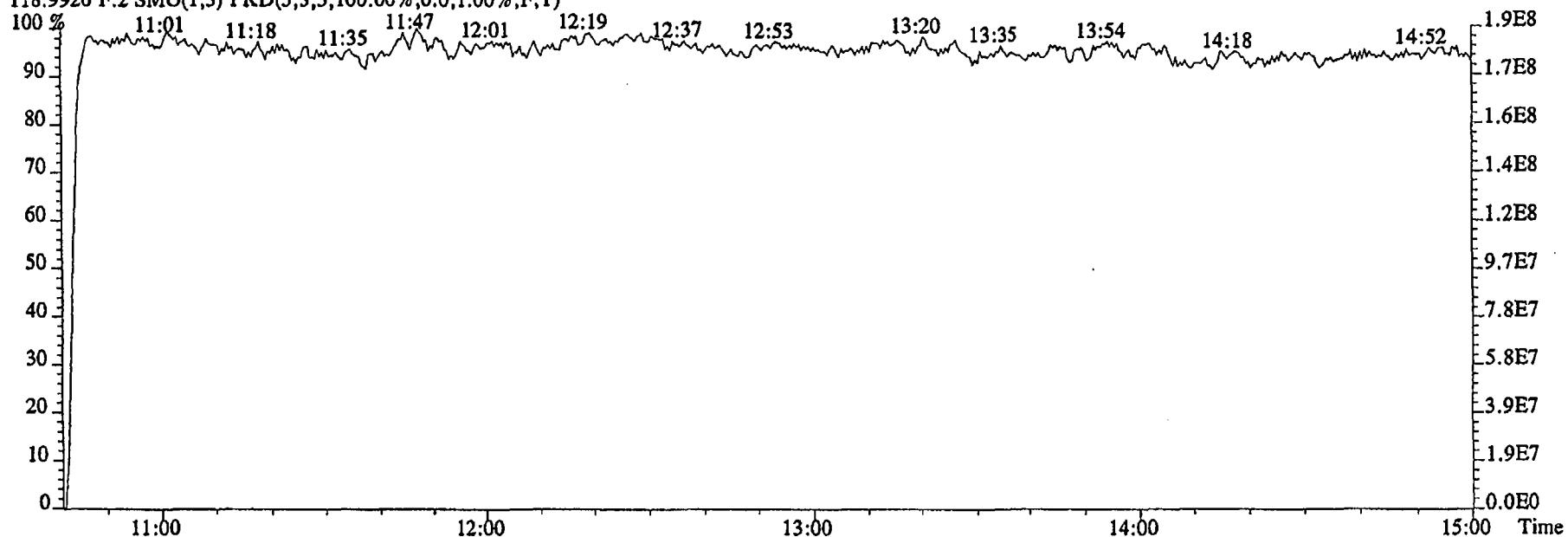
File:29DE045SP #1-474 Acq:29-DEC-2004 13:31:25 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1229 :CS1 2350-68A Exp:NDMAVOA  
68.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



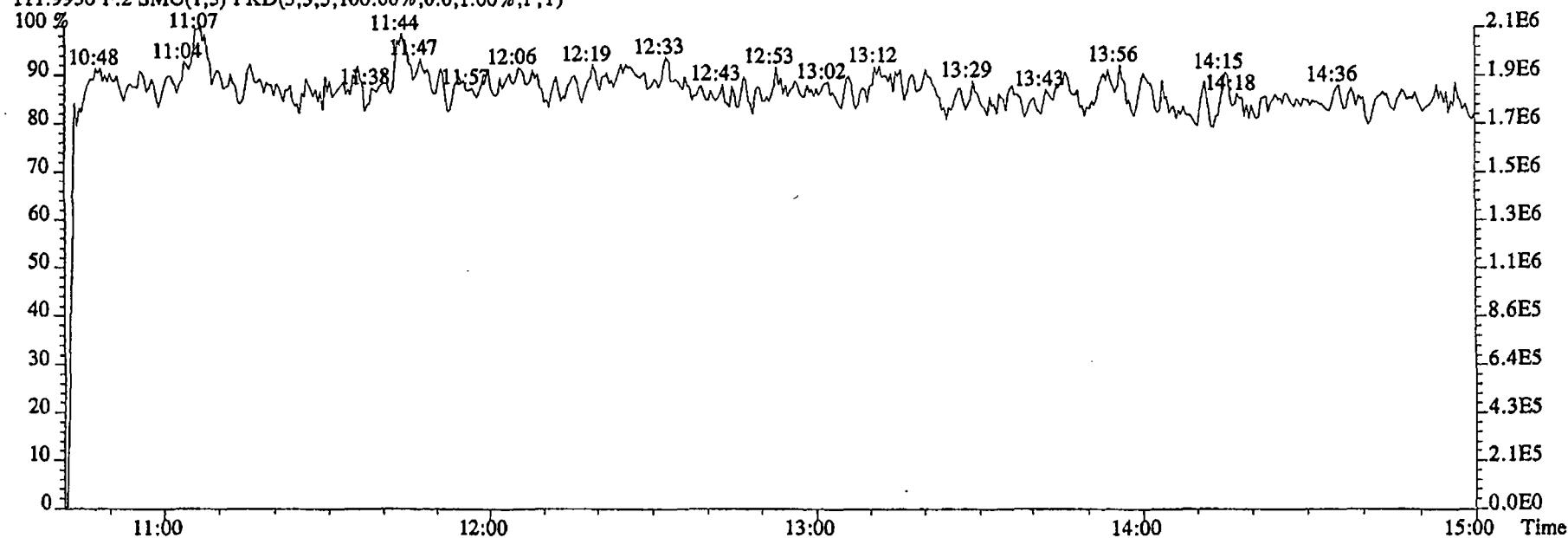
80.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



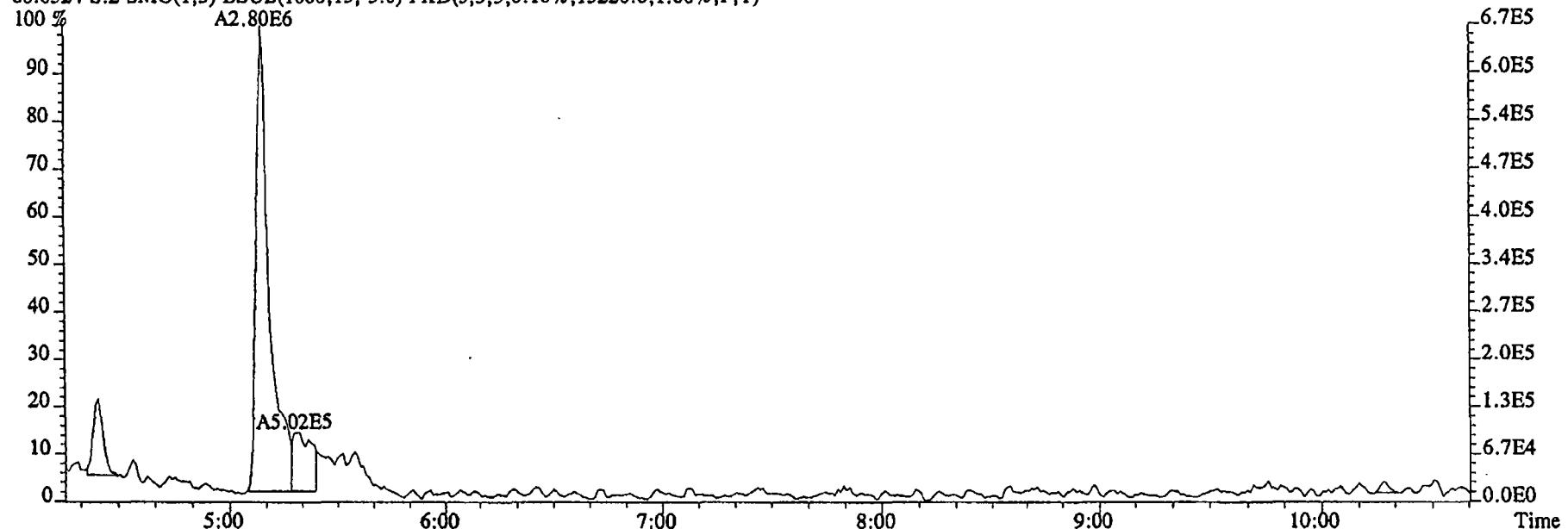
File:29DE045SP #1-602 Acq:29-DEC-2004 13:31:25 GC EI+ Voltage SIR 70SE  
Sample#1 Text:ST1229 :CS1 2350-68A Exp:NDMAVOA  
118.9920 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



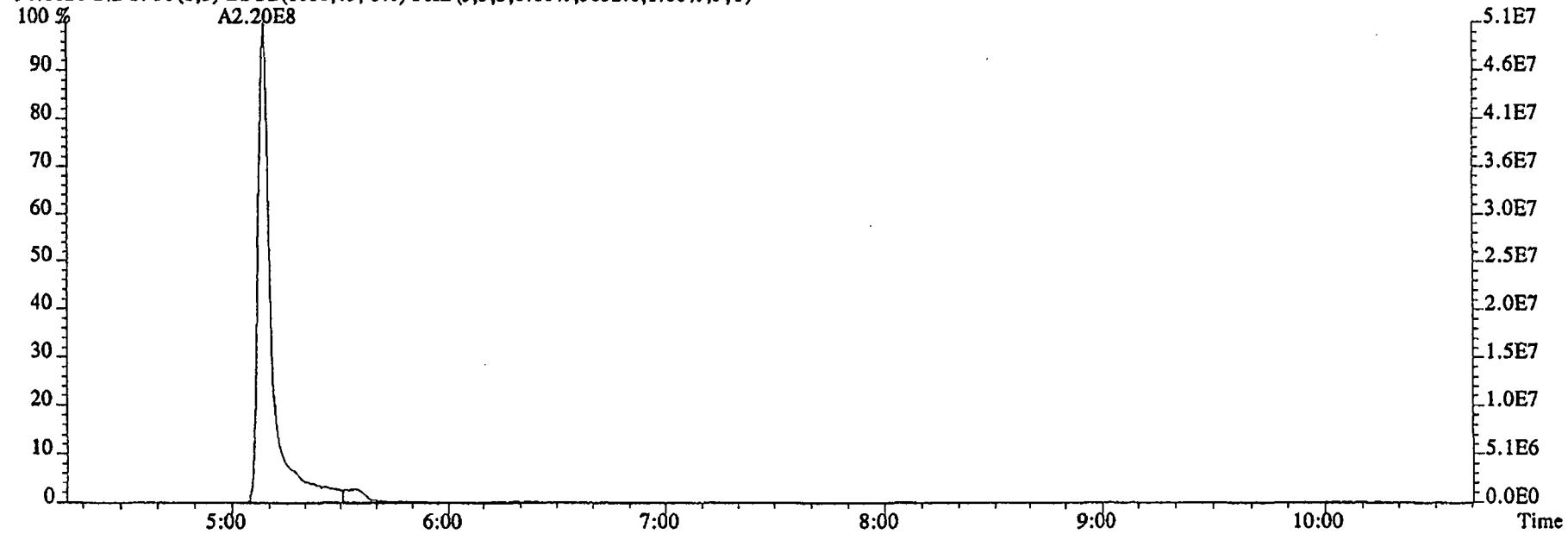
111.9936 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



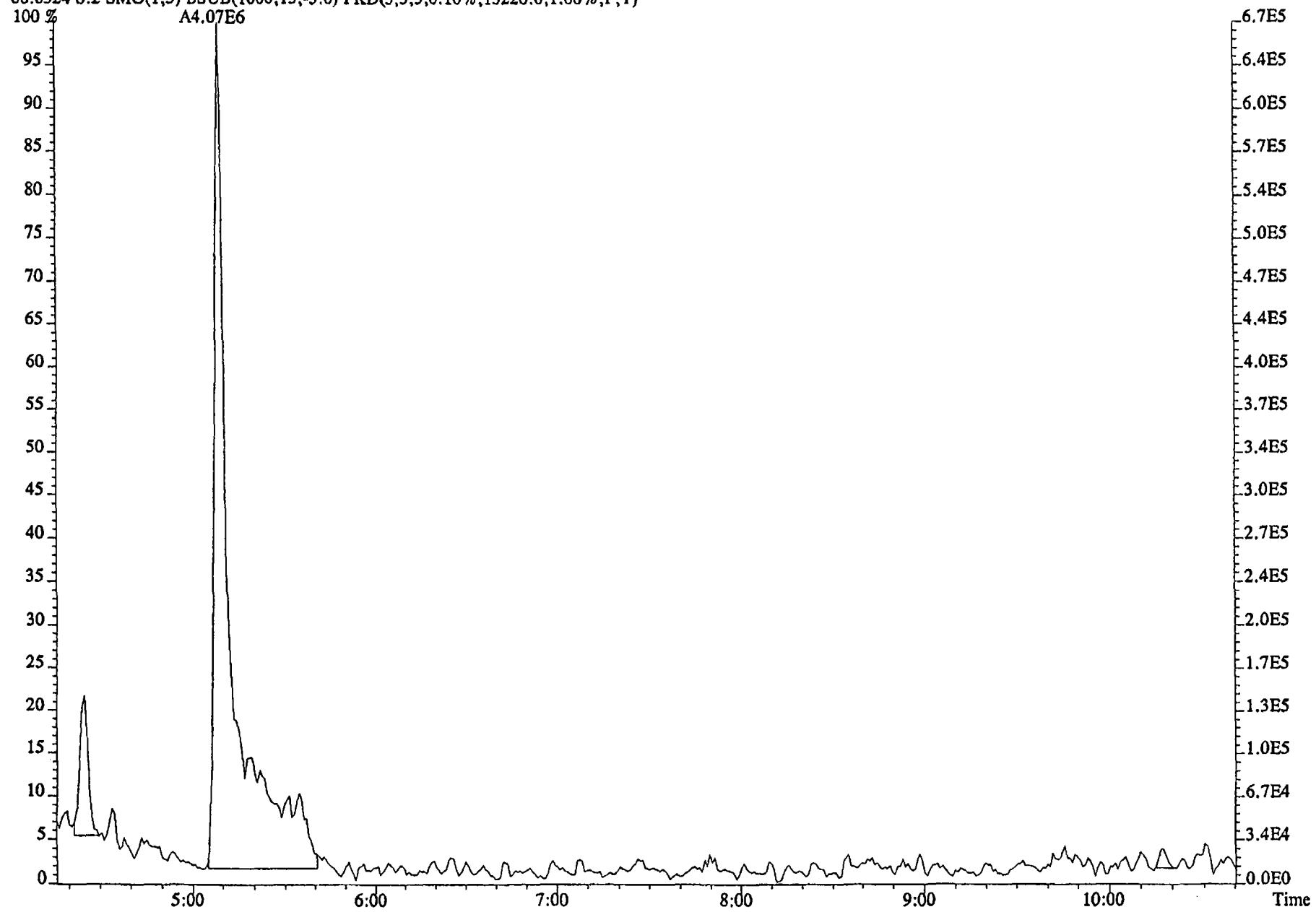
File:29DE045SP #1-474 Acq:29-DEC-2004 13:51:41 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1229A :CS2 2350-68B Exp:NDMAVOA  
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15220.0,1.00%,F,T)



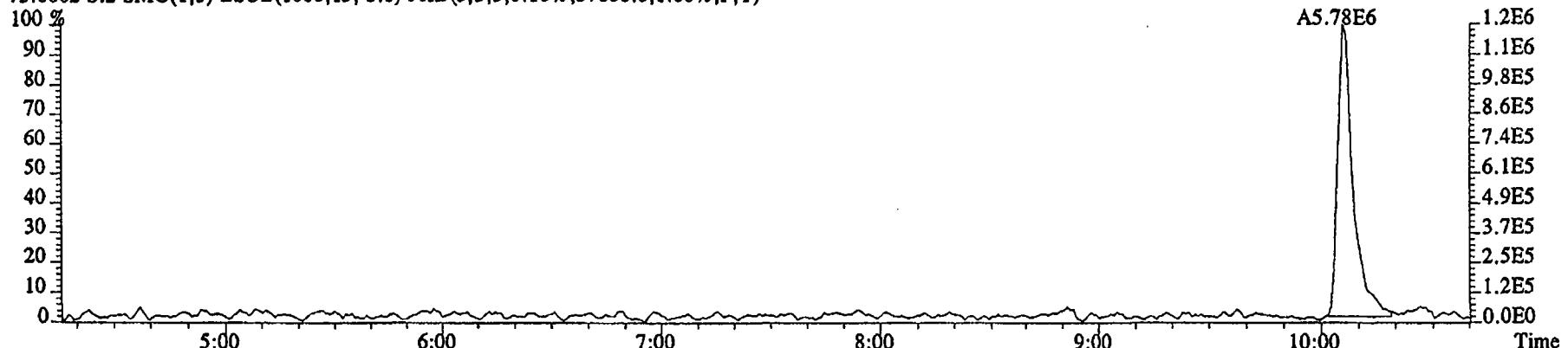
96.1026 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5832.0,1.00%,F,T)



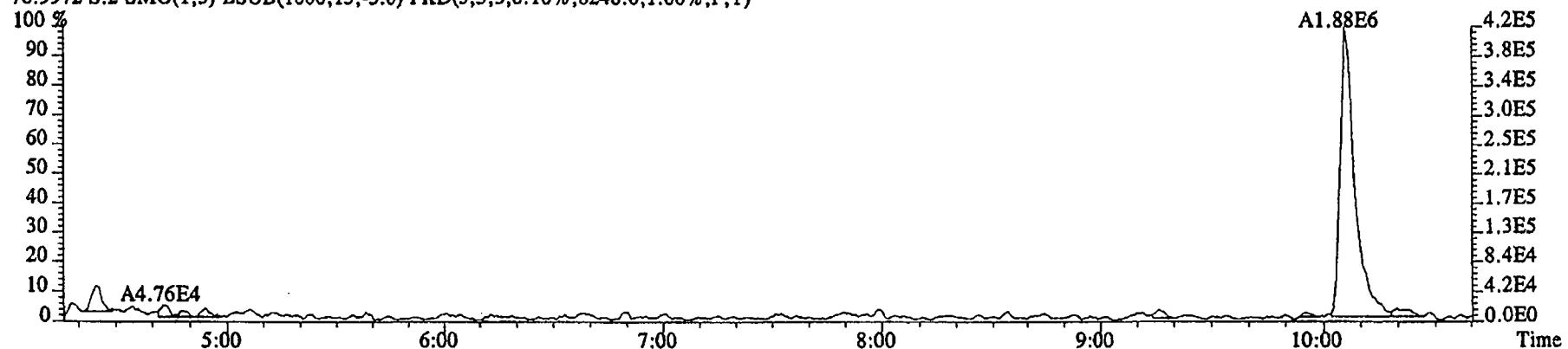
File:29DE045SP #1-474 Acq:29-DEC-2004 13:51:41 GC EI+ Voltage SIR 70SE  
Sample#2 Exp:NDMAVOA  
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15220.0,1.00%,F,T)



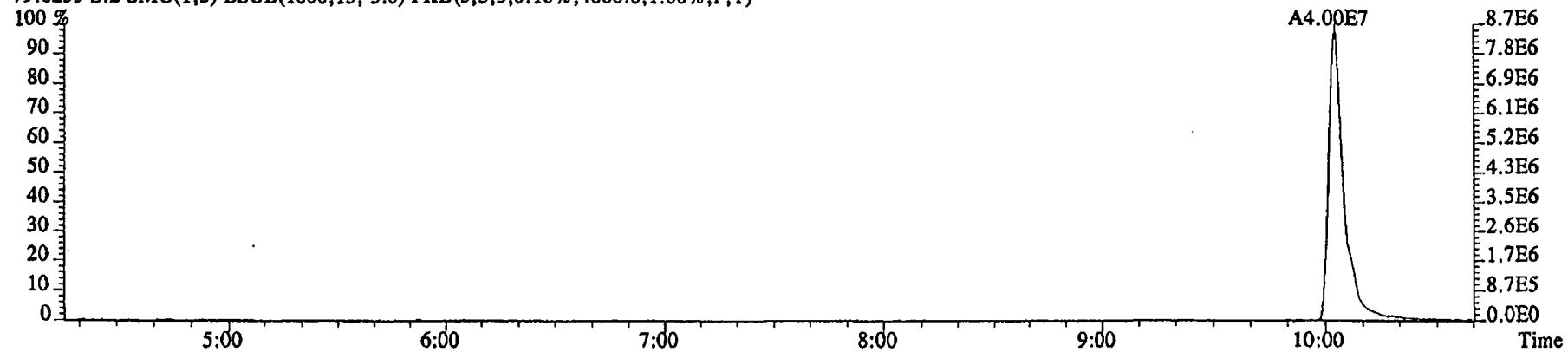
File:29DE045SP #1-474 Acq:29-DEC-2004 13:51:41 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST1229A :CS2 2350-68B Exp:NDMAVOA  
 75.0002 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37808.0,1.00%,F,T)



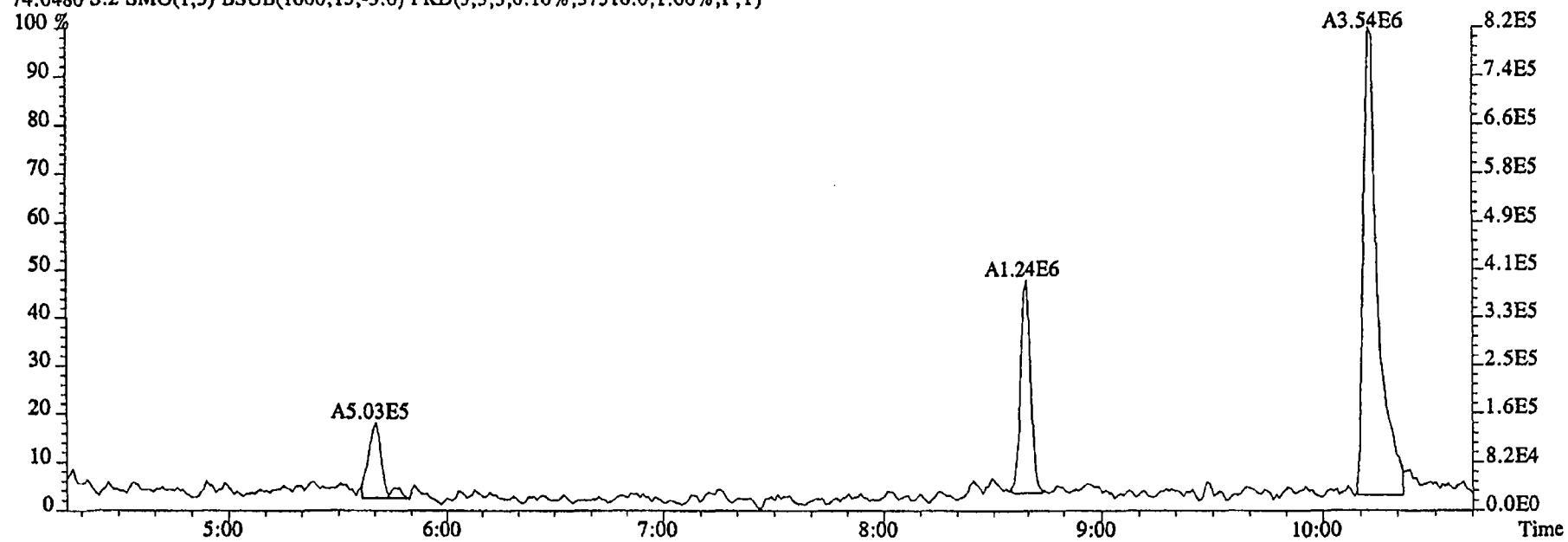
76.9972 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8248.0,1.00%,F,T)



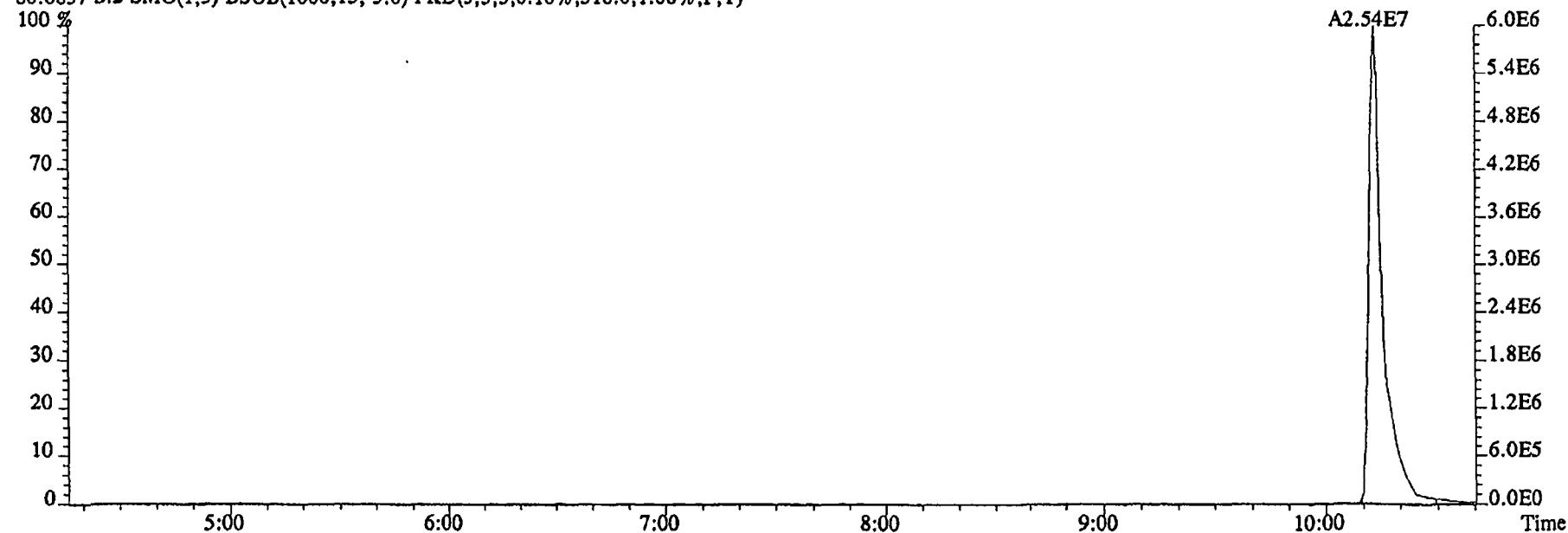
79.0253 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4668.0,1.00%,F,T)



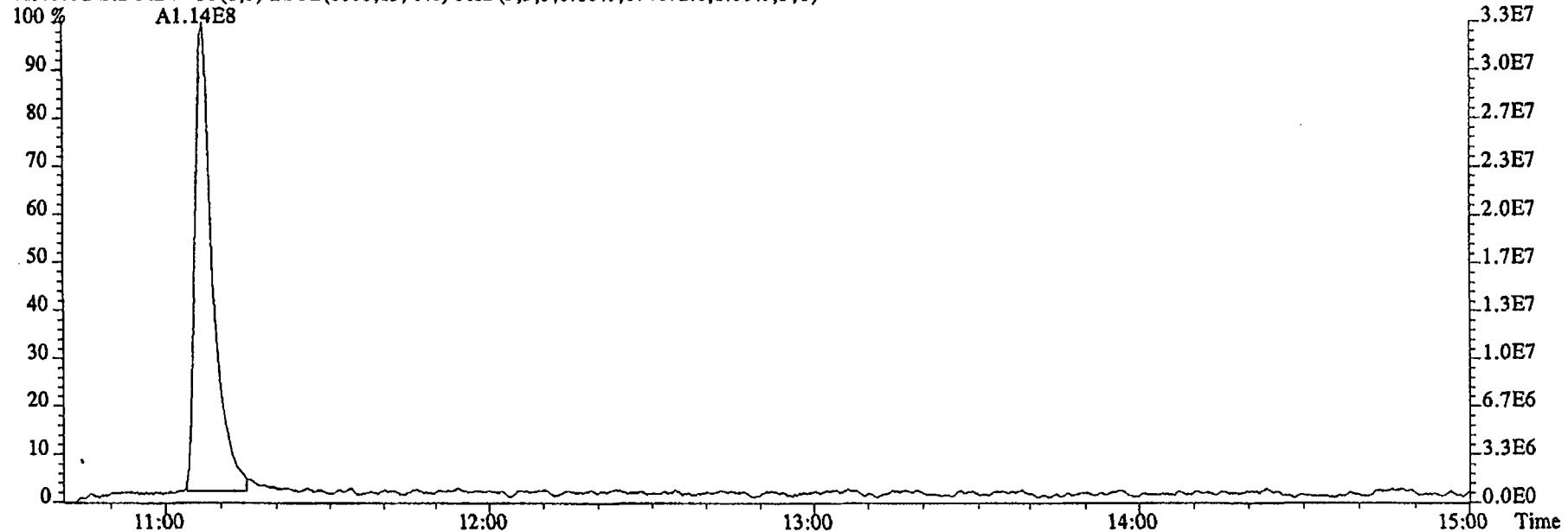
File:29DE045SP #1-474 Acq:29-DEC-2004 13:51:41 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1229A :CS2 2350-68B Exp:NDMAVOA  
74.0480 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37516.0,1.00%,F,T)



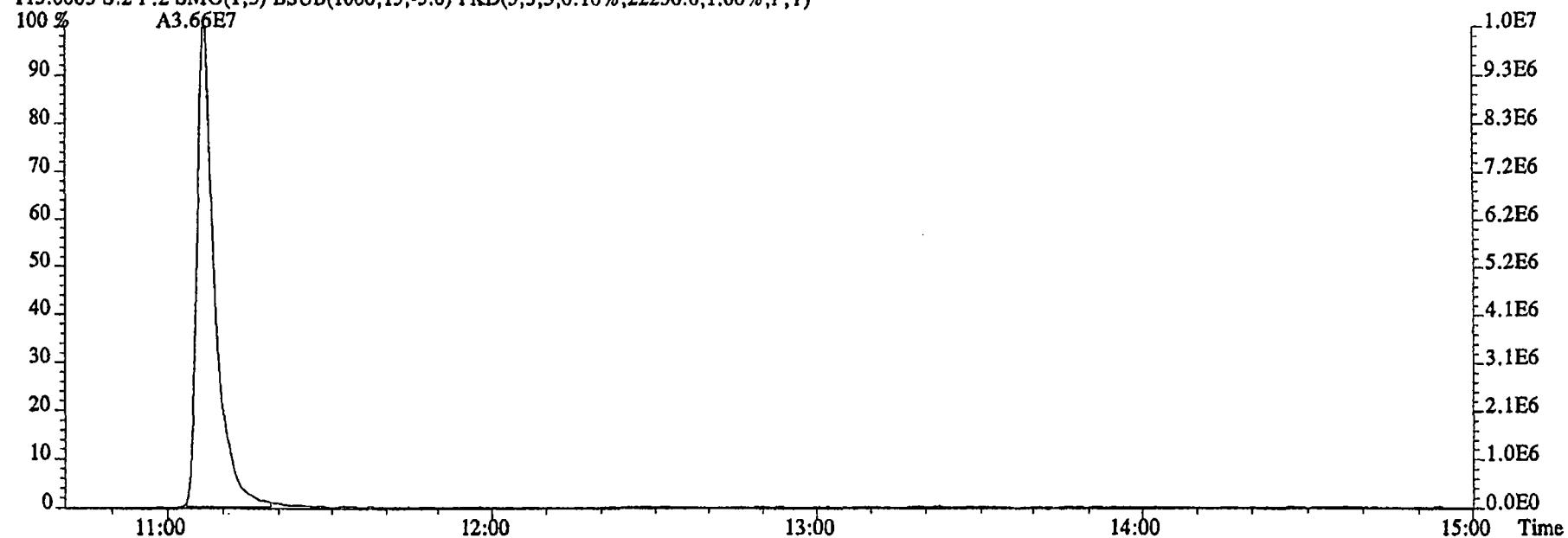
80.0857 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,516.0,1.00%,F,T)



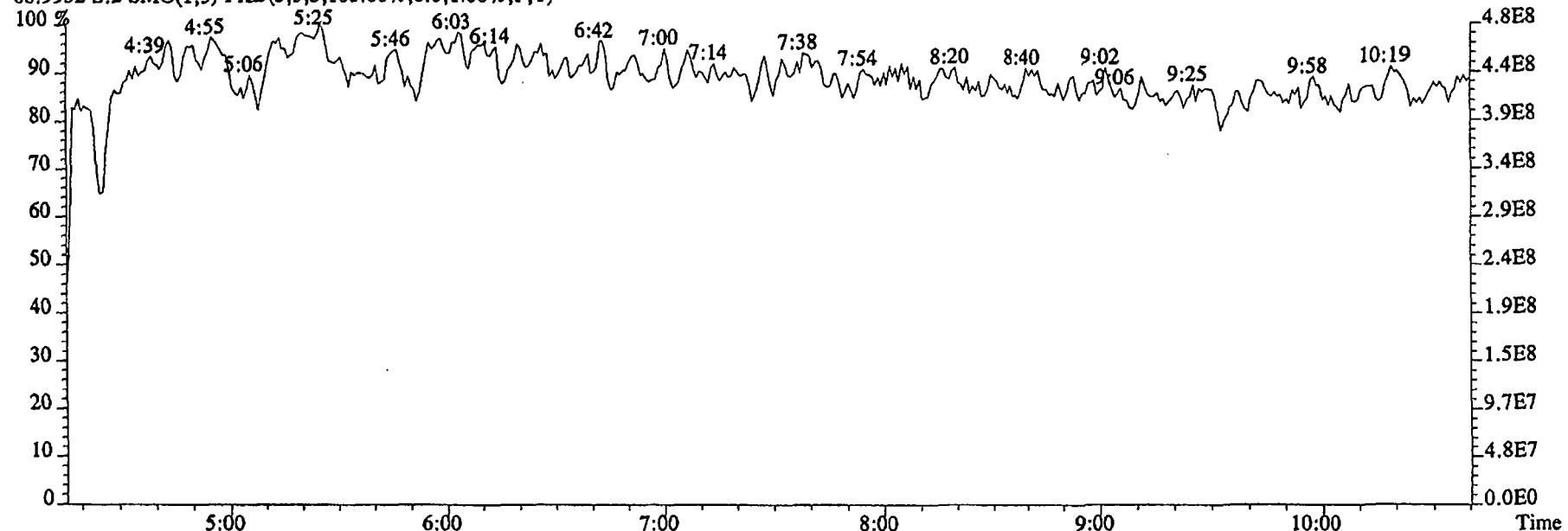
File:29DE045SP #1-603 Acq:29-DEC-2004 13:51:41 GC El+ Voltage SIR 70SE  
Sample#2 Text:ST1229A :CS2 2350-68B Exp:NDMAVOA  
113.0032 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,874672.0,1.00%,F,T)



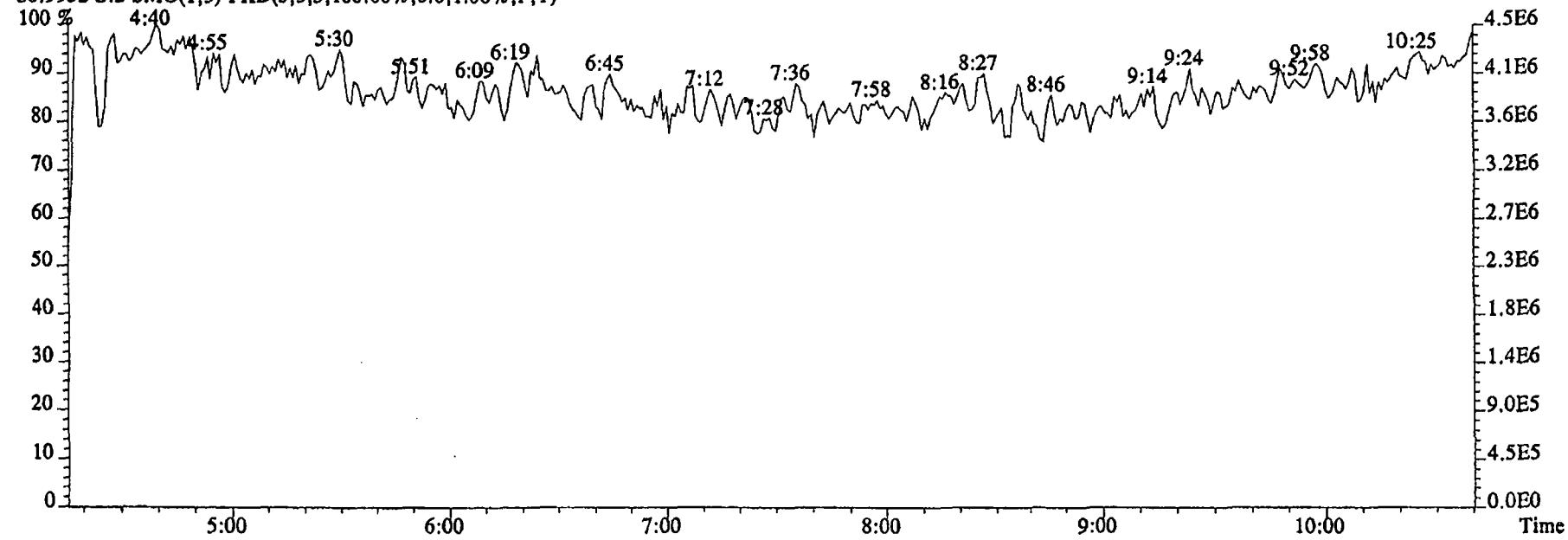
115.0003 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22256.0,1.00%,F,T)



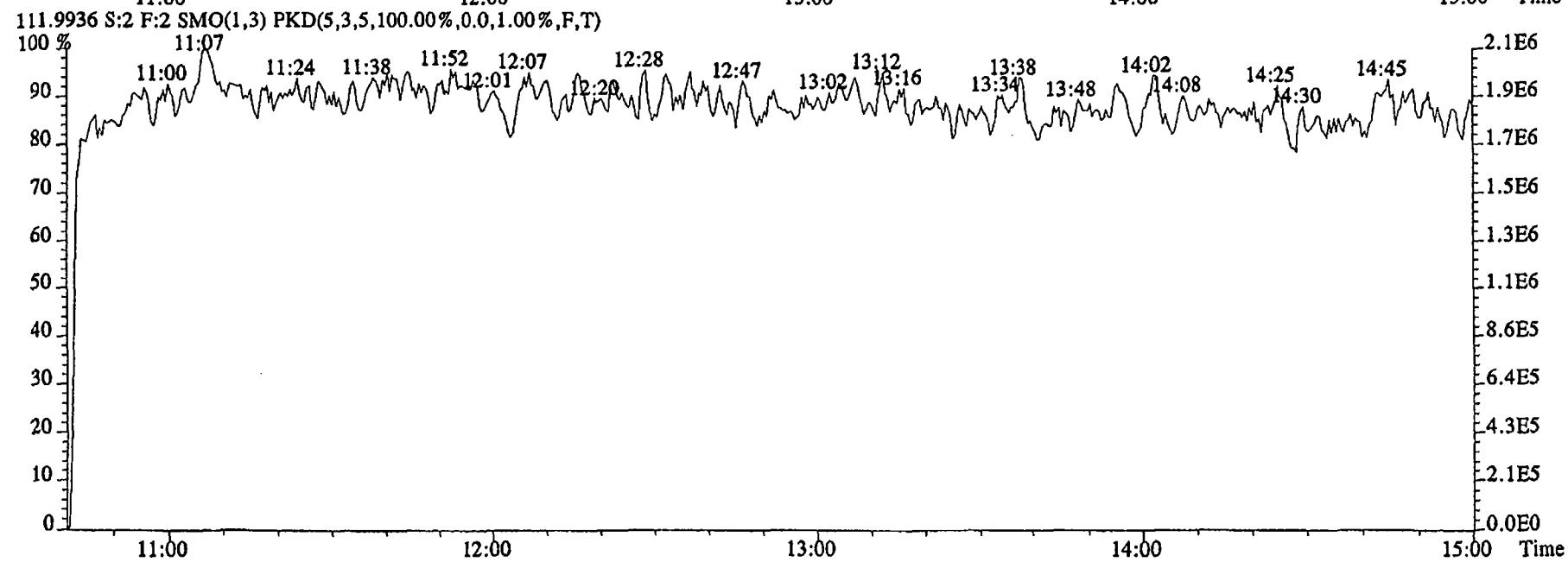
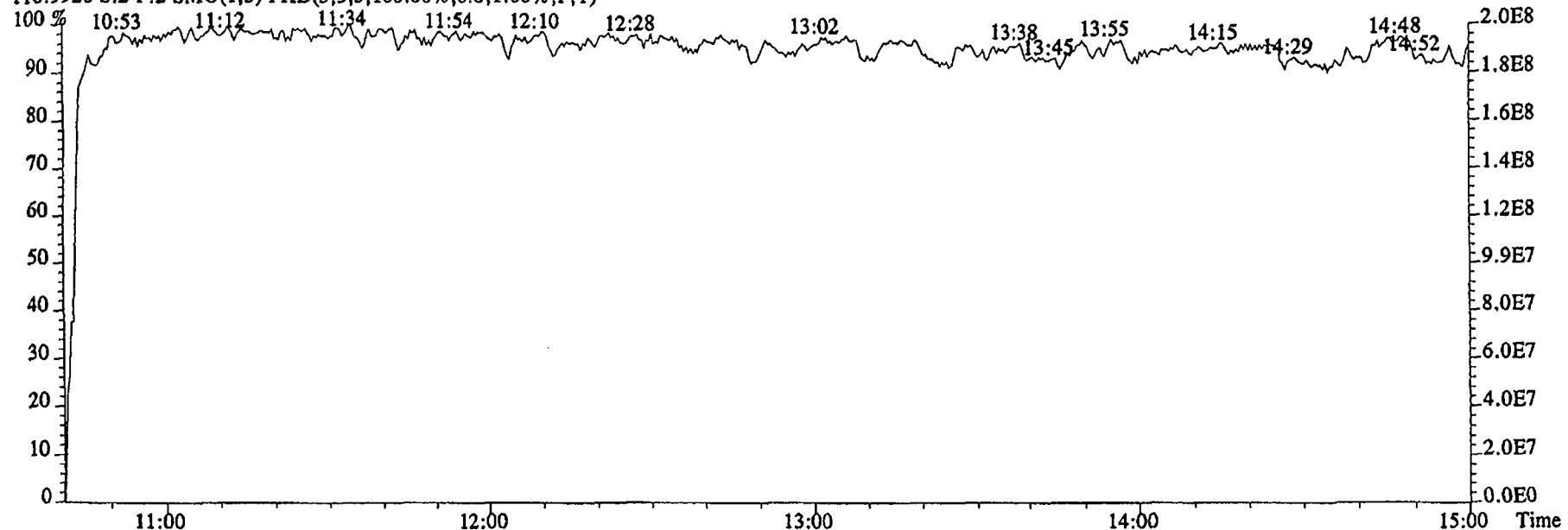
File:29DE045SP #1-474 Acq:29-DEC-2004 13:51:41 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1229A :CS2 2350-68B Exp:NDMAVOA  
68.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



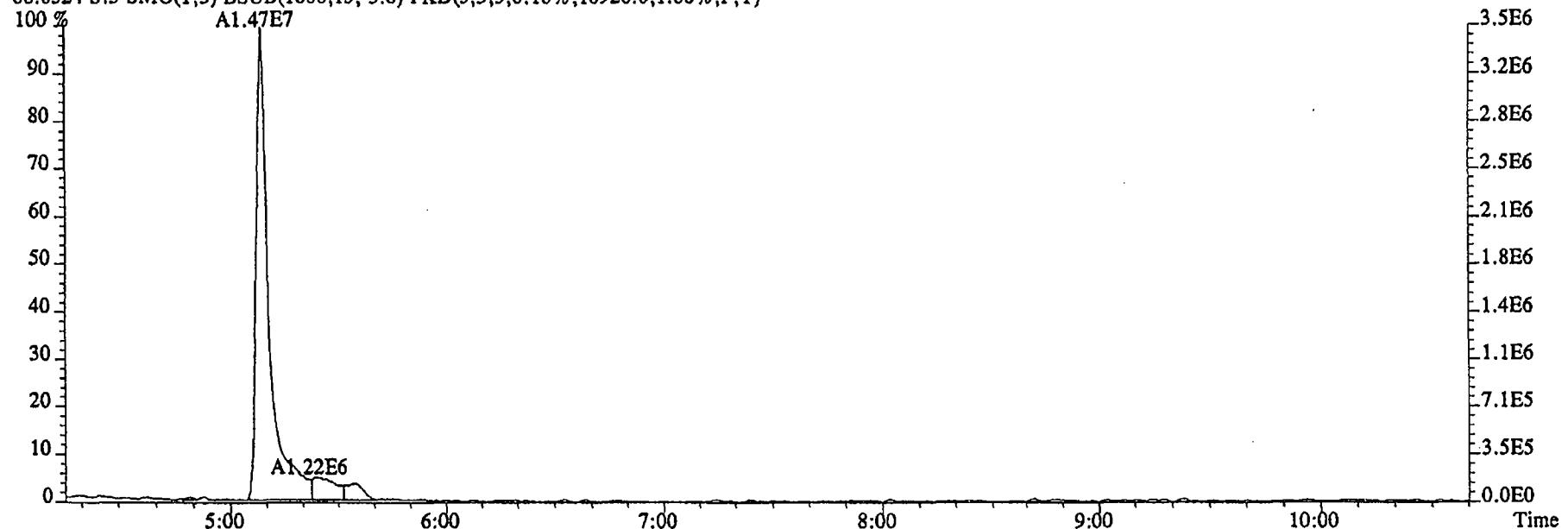
80.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



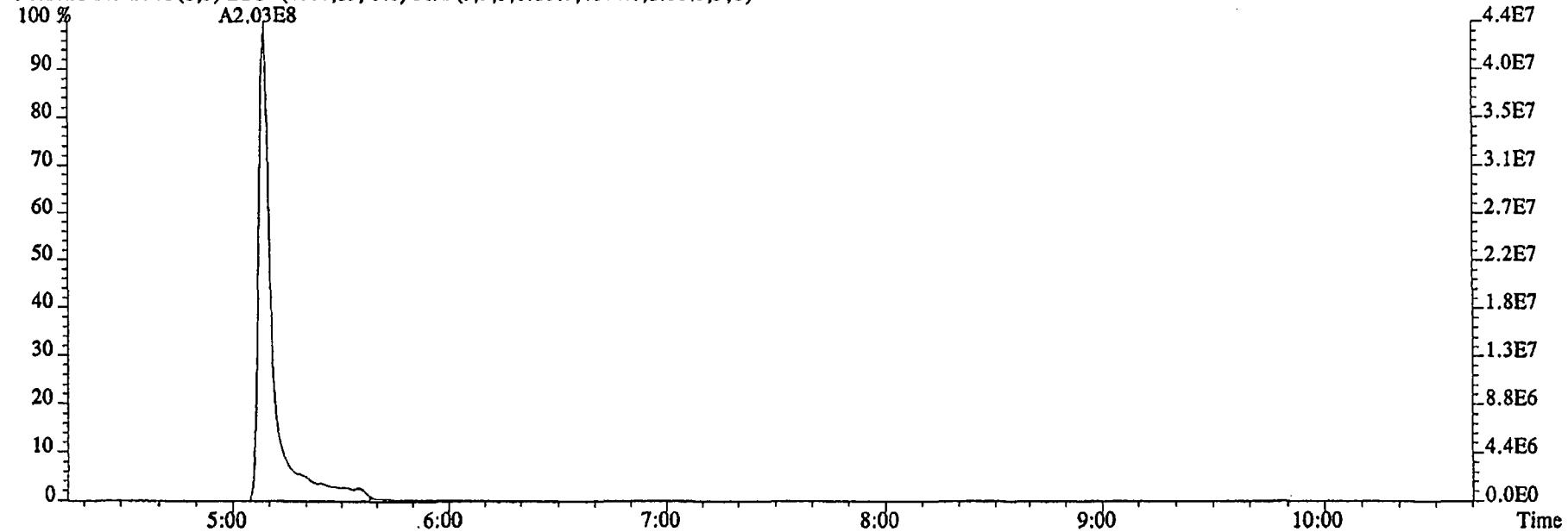
File:29DE045SP #1-603 Acq:29-DEC-2004 13:51:41 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1229A :CS2 2350-68B Exp:NDMAVOA  
118.9920 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



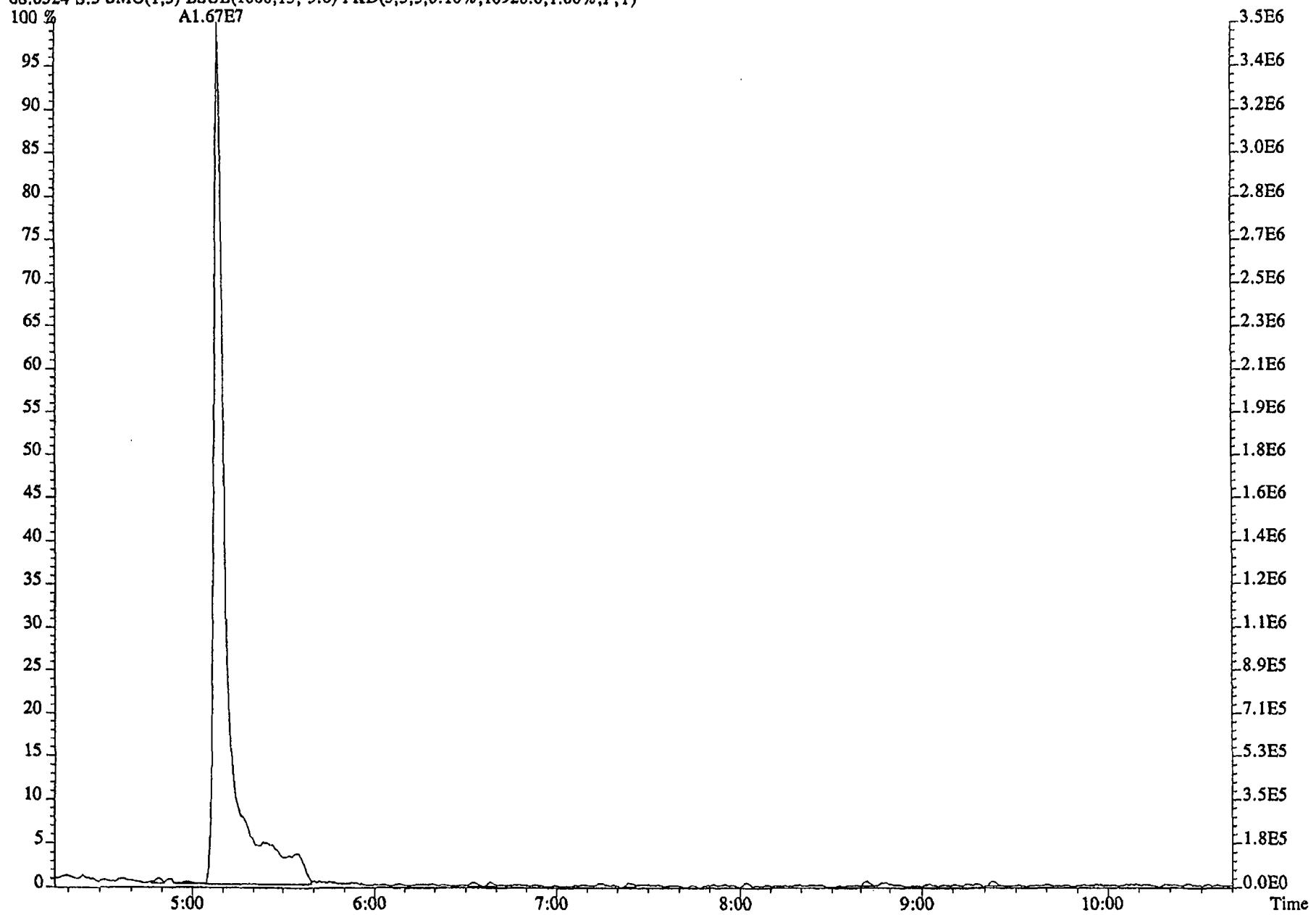
File:29DE045SP #1-474 Acq:29-DEC-2004 14:12:03 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1229B :CS3 2350-68C Exp:NDMAVOA  
88.0524 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10928.0,1.00%,F,T)



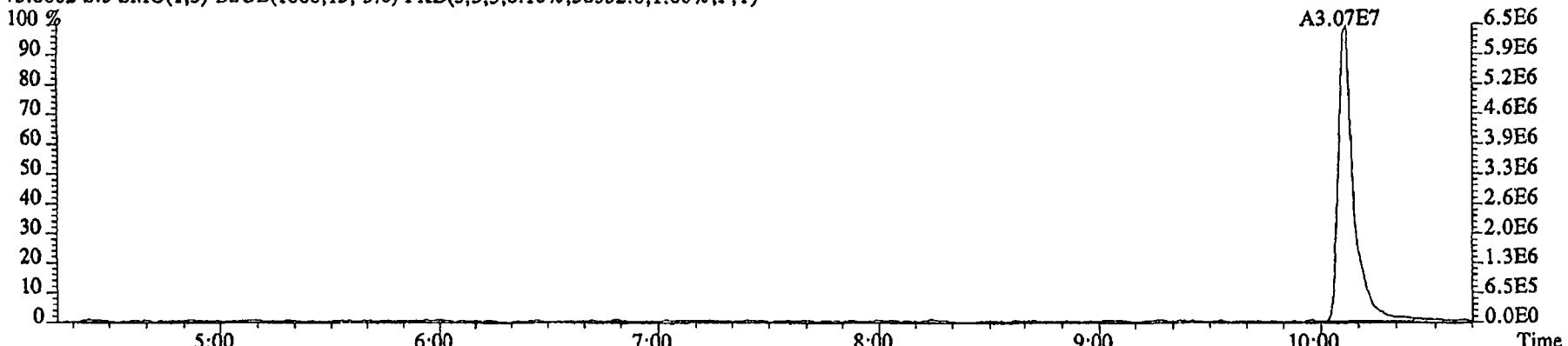
96.1026 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4064.0,1.00%,F,T)



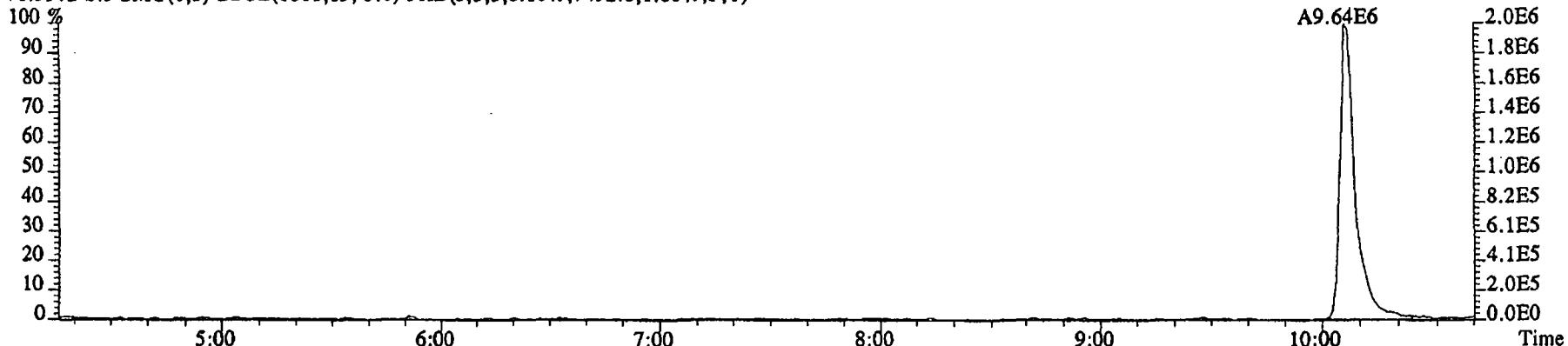
File:29DE045SP #1-474 Acq:29-DEC-2004 14:12:03 GC El + Voltage SIR 70SE  
Sample#3 Exp:NDMAVOA  
88.0524 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10928.0,1.00%,F,T)



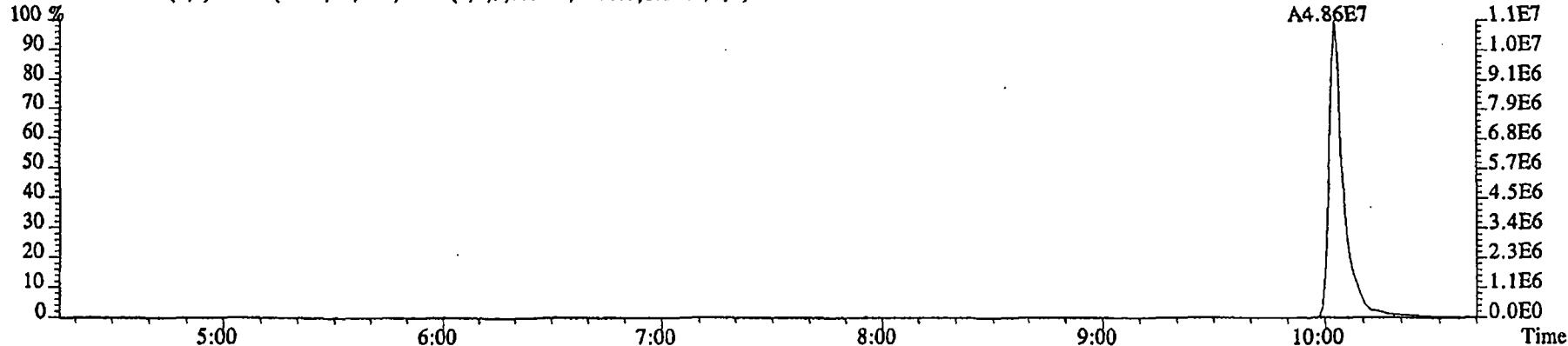
File:29DE045SP #1-474 Acq:29-DEC-2004 14:12:03 GC EI + Voltage SIR 70SE  
Sample#3 Text:ST1229B :CS3 2350-68C Exp:NDMAVOA  
75.0002 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36352.0,1.00%,F,T)



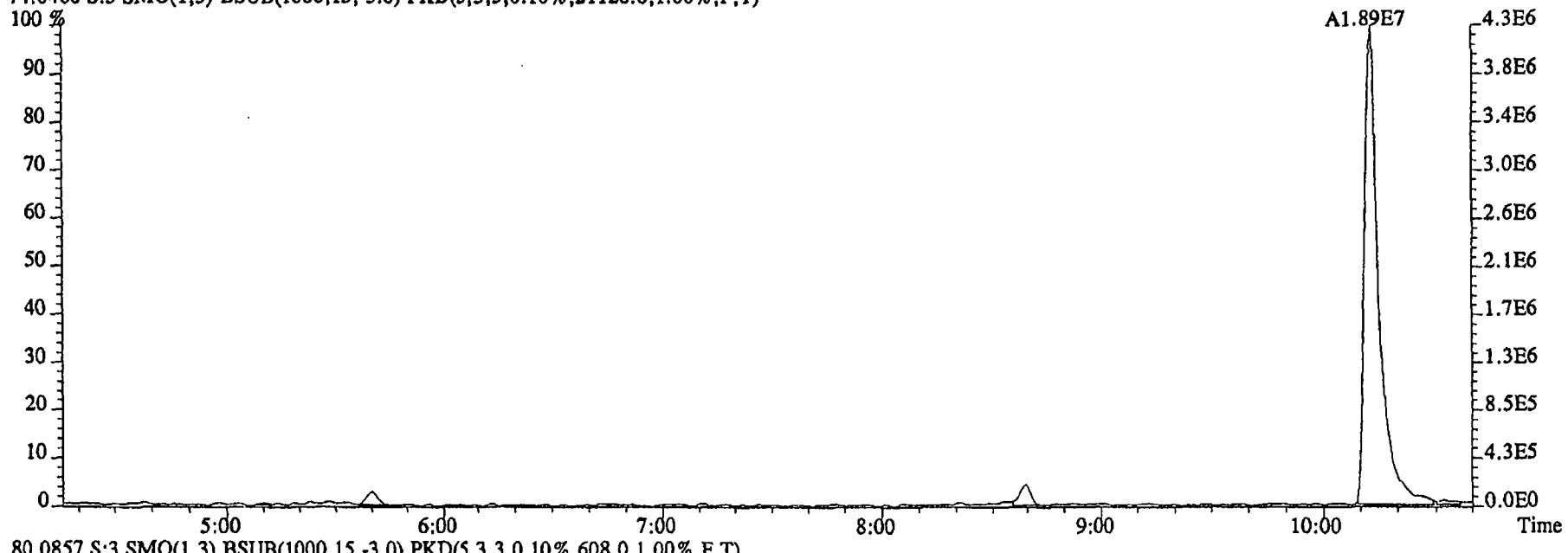
76.9972 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7492.0,1.00%,F,T)



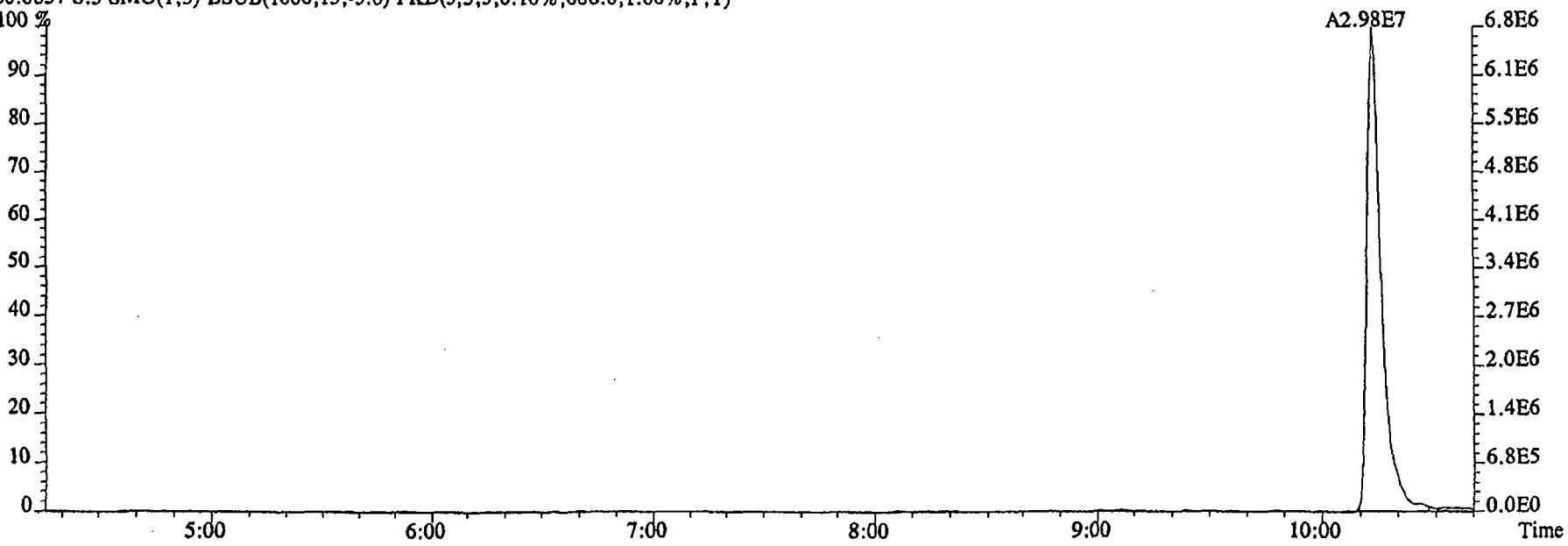
79.0253 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4200.0,1.00%,F,T)



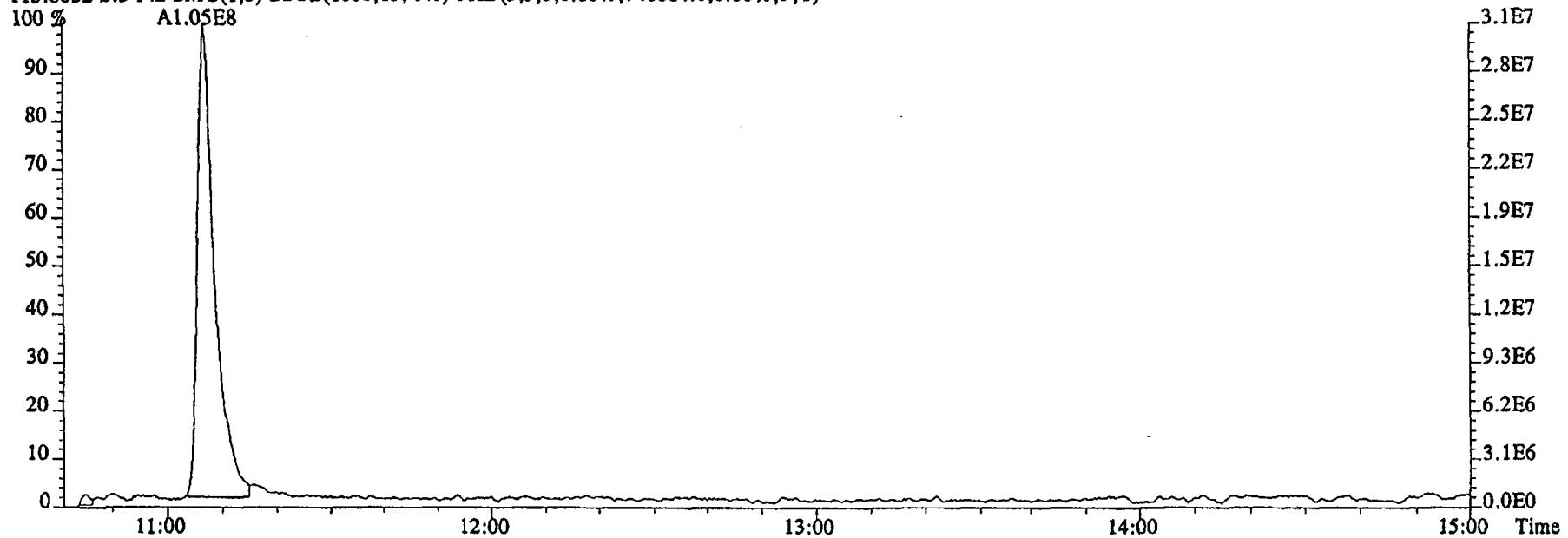
File:29DE045SP #1-474 Acq:29-DEC-2004 14:12:03 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1229B :CS3 2350-68C Exp:NDMAVOA  
74.0480 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21128.0,1.00%,F,T)



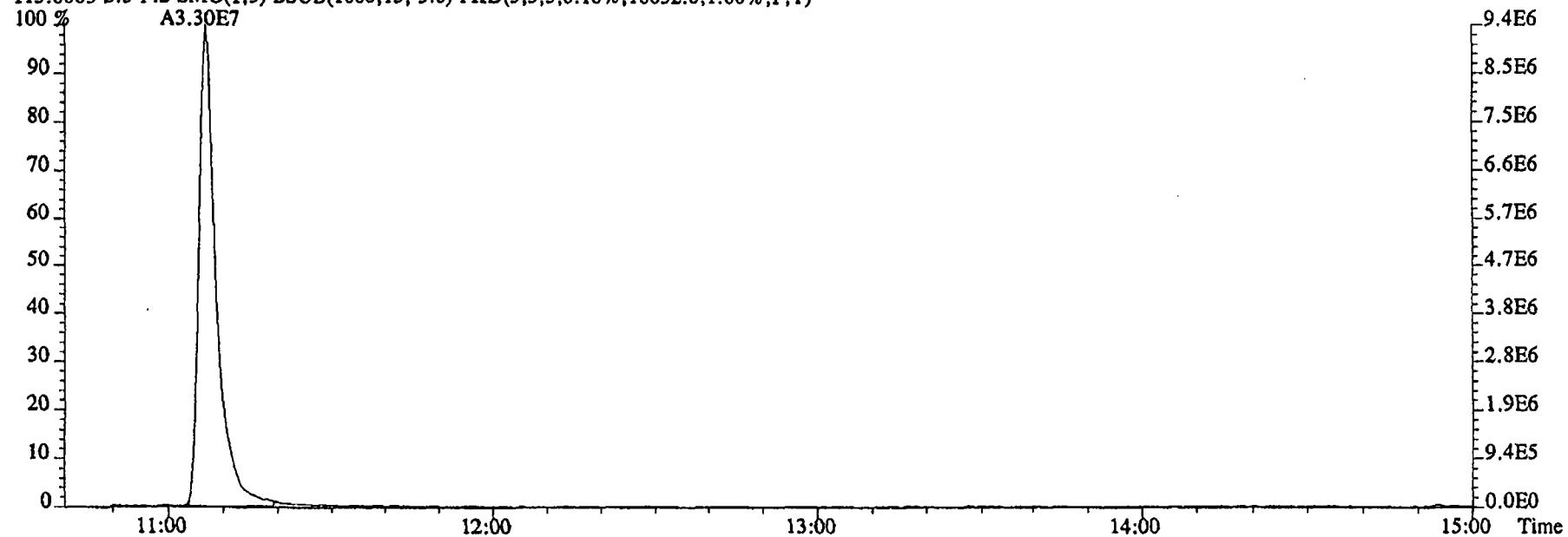
80.0857 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,608.0,1.00%,F,T)



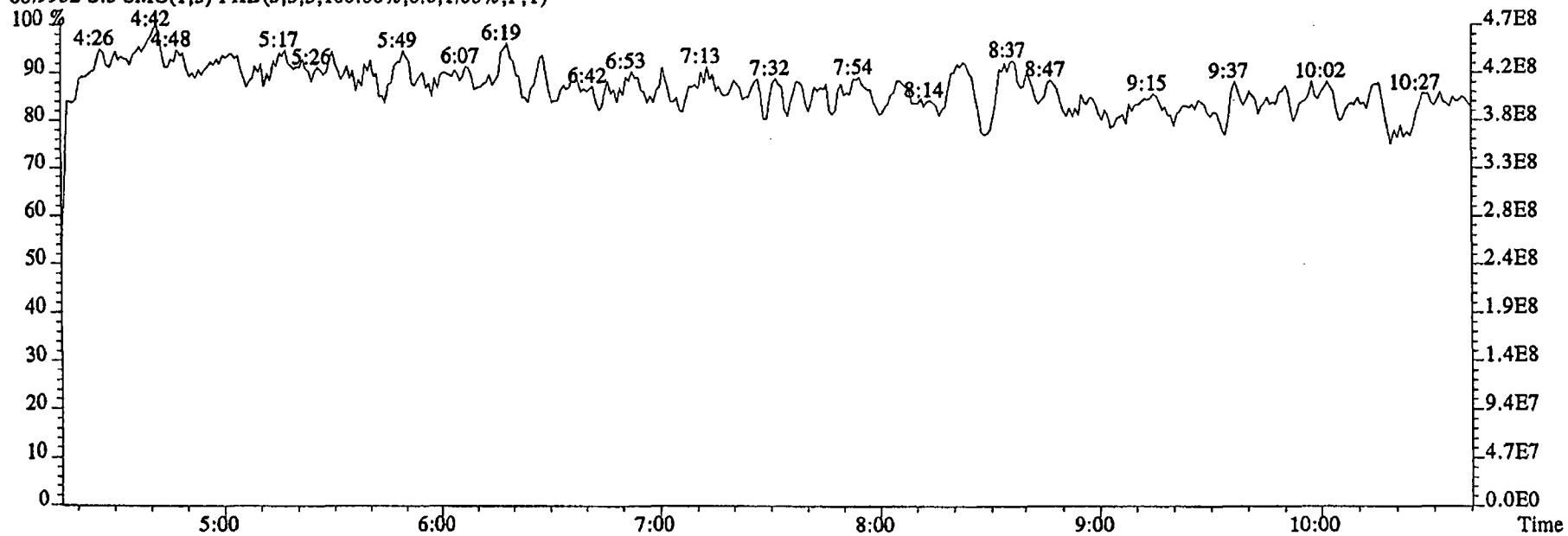
File:29DE045SP #1-603 Acq:29-DEC-2004 14:12:03 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1229B :CS3 2350-68C Exp:NDMAVOA  
113.0032 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,740084.0,1.00%,F,T)



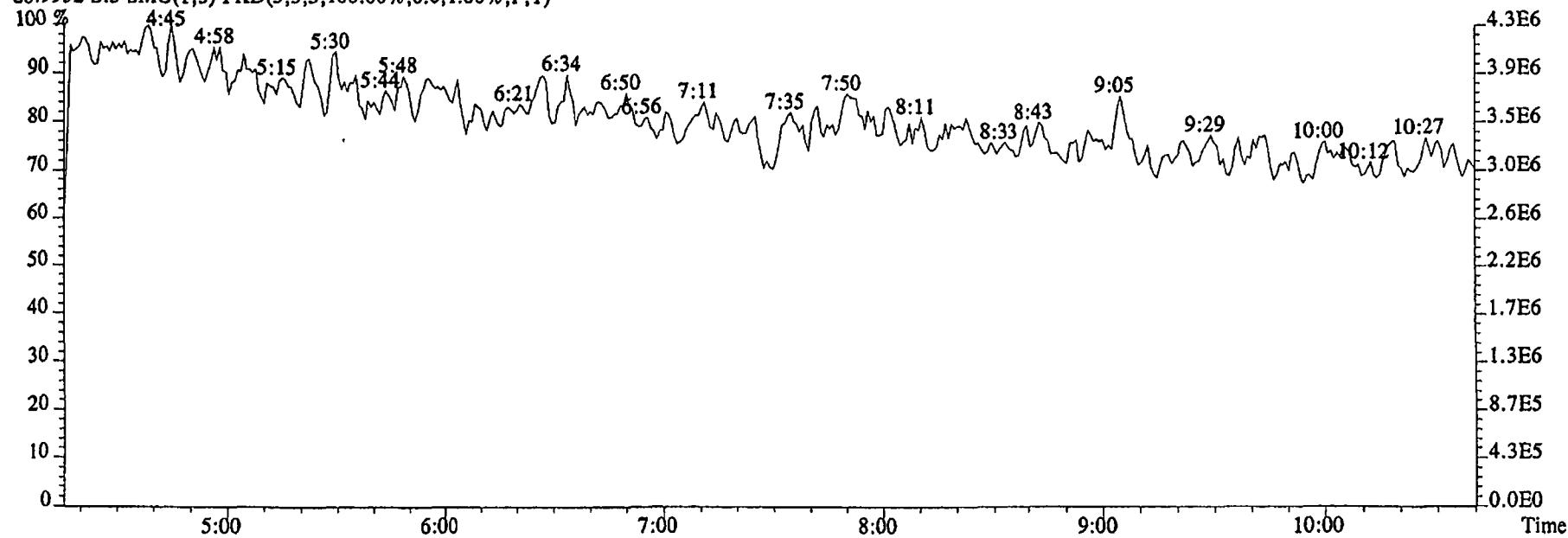
115.0003 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16632.0,1.00%,F,T)



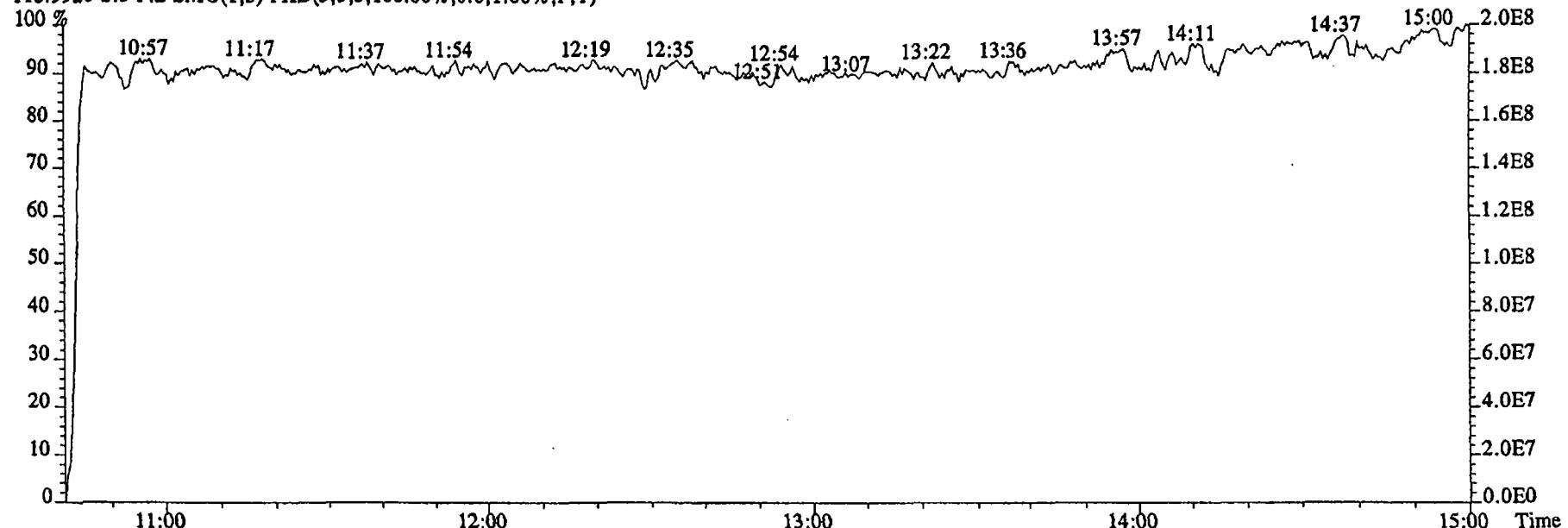
File:29DE045SP #1-474 Acq:29-DEC-2004 14:12:03 GC El+ Voltage SIR 70SE  
Sample#3 Text:ST1229B :CS3 2350-68C Exp:NDMAVOA  
68.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



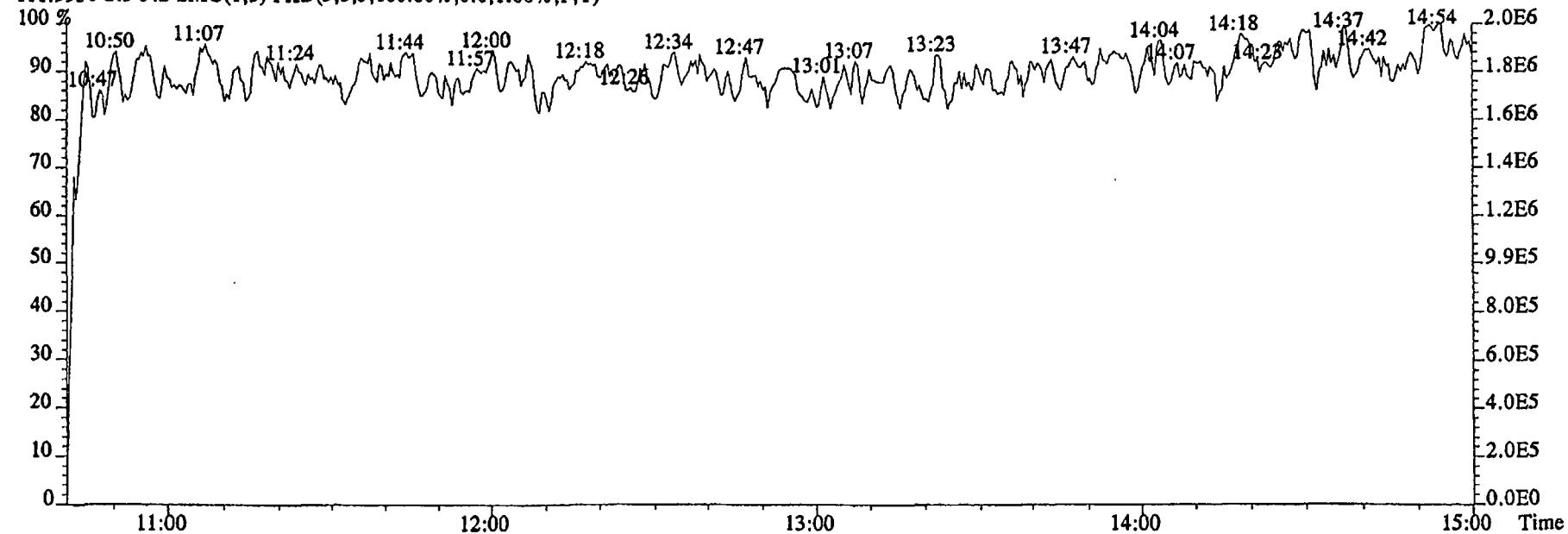
80.9952 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



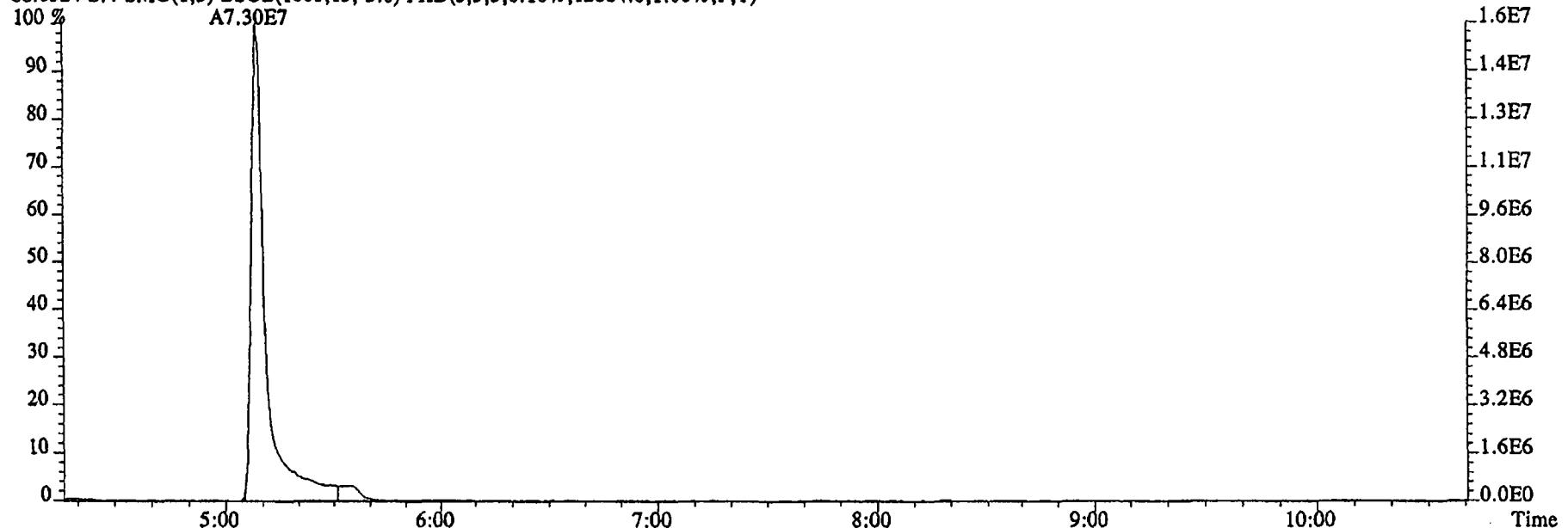
File:29DE045SP #1-603 Acq:29-DEC-2004 14:12:03 GC EI+ Voltage SIR 70SE  
Sample#3 Text:ST1229B :CS3 2350-68C Exp:NDMAVOA  
118.9920 S:3 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



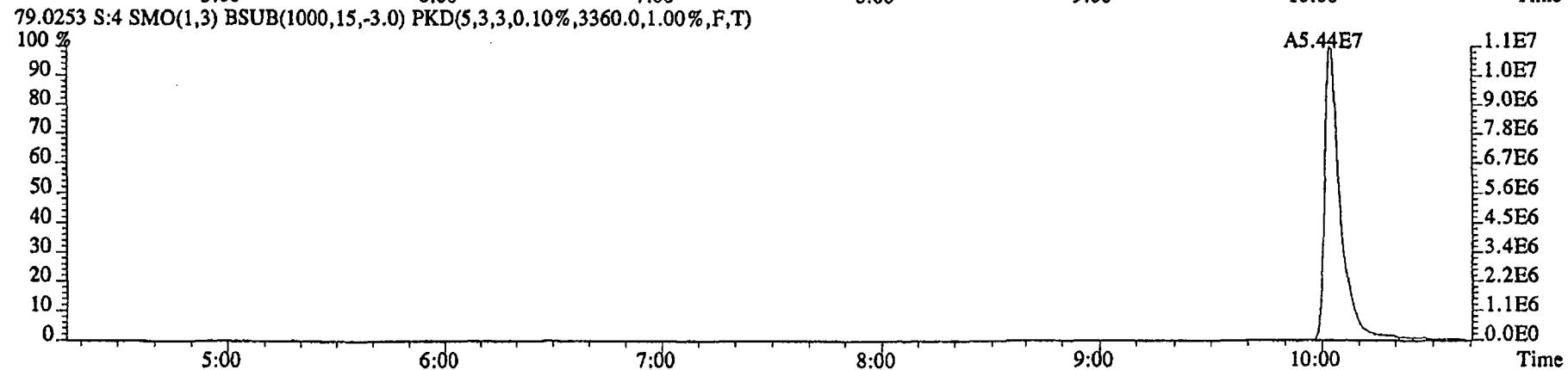
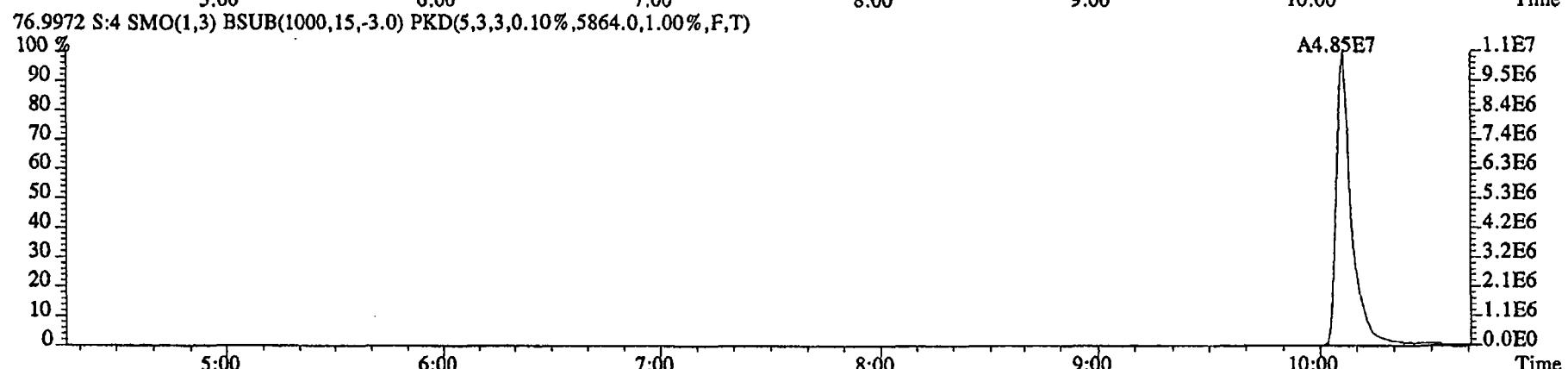
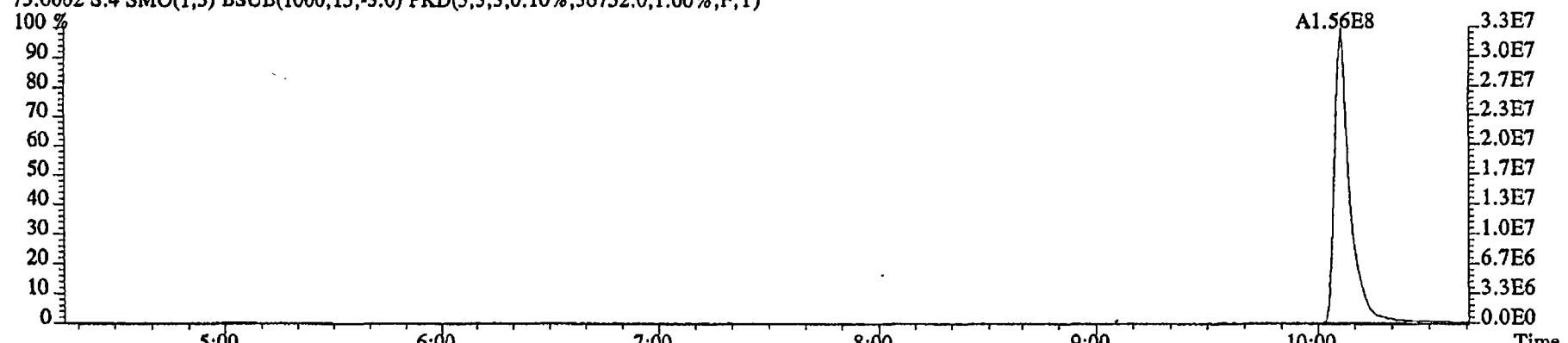
111.9936 S:3 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



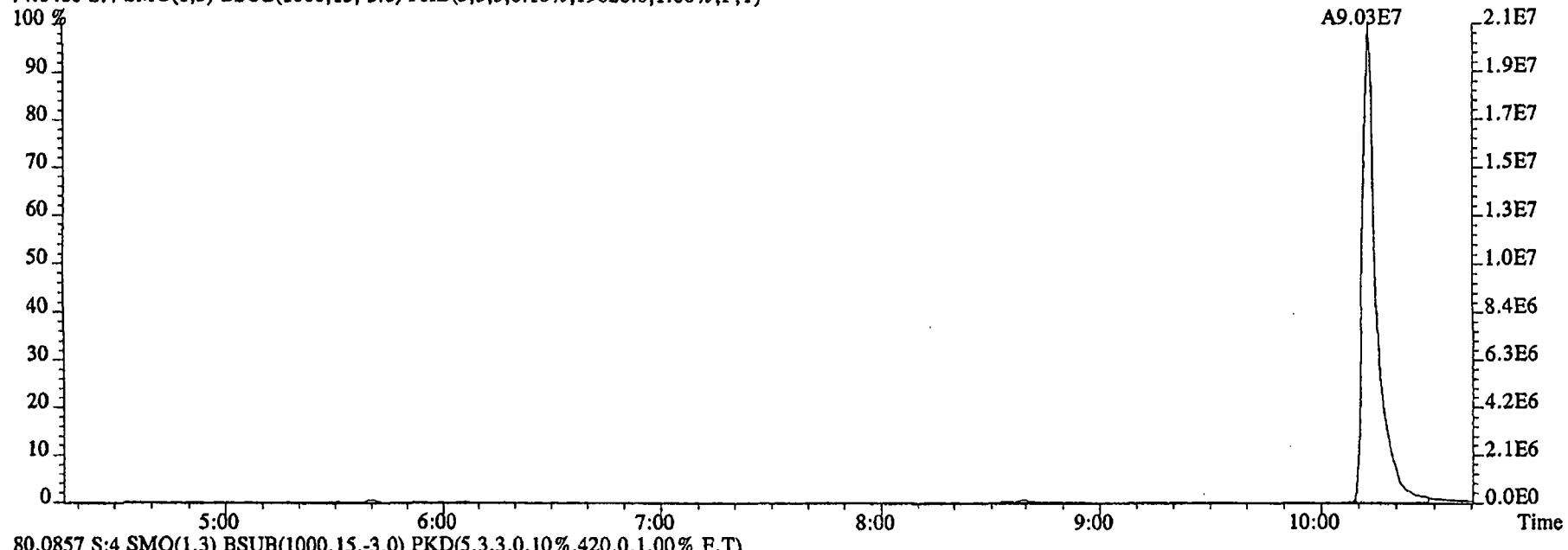
File:29DE045SP #1-474 Acq:29-DEC-2004 14:32:28 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1229C :CS4 2350-68D Exp:NDMAVOA  
88.0524 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12884.0,1.00%,F,T)



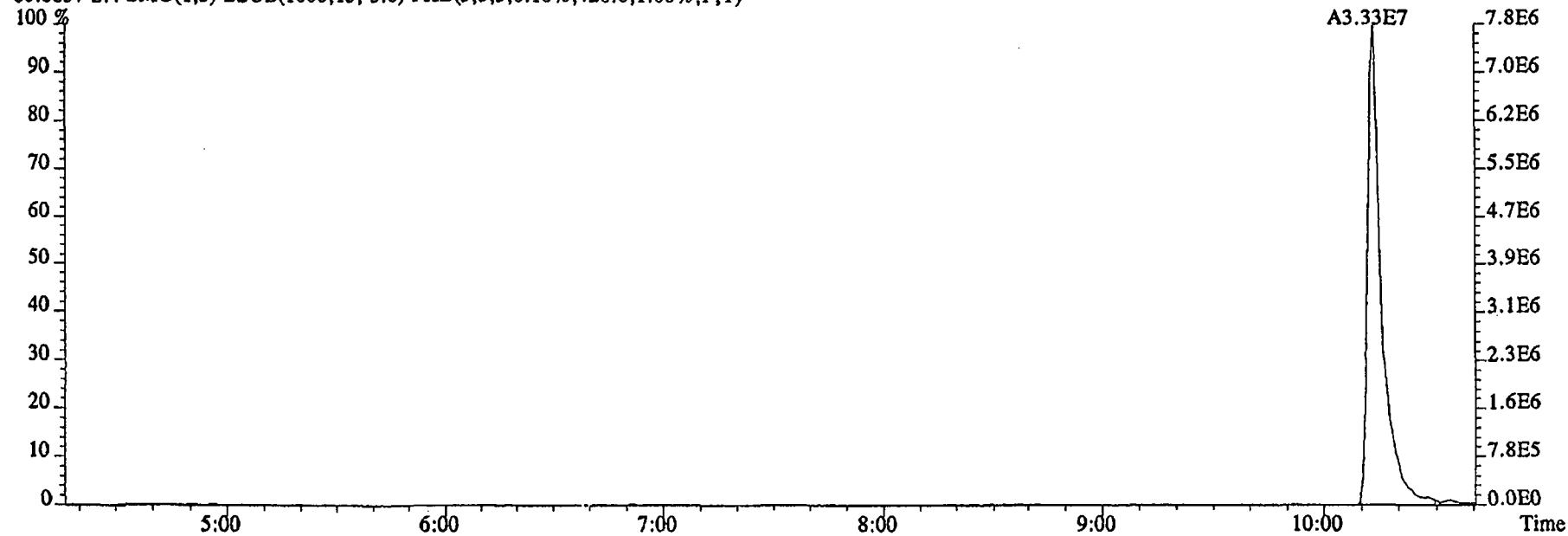
File:29DE045SP #1-474 Acq:29-DEC-2004 14:32:28 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1229C :CS4 2350-68D Exp:NDMAVOA  
75.0002 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36752.0,1.00%,F,T)



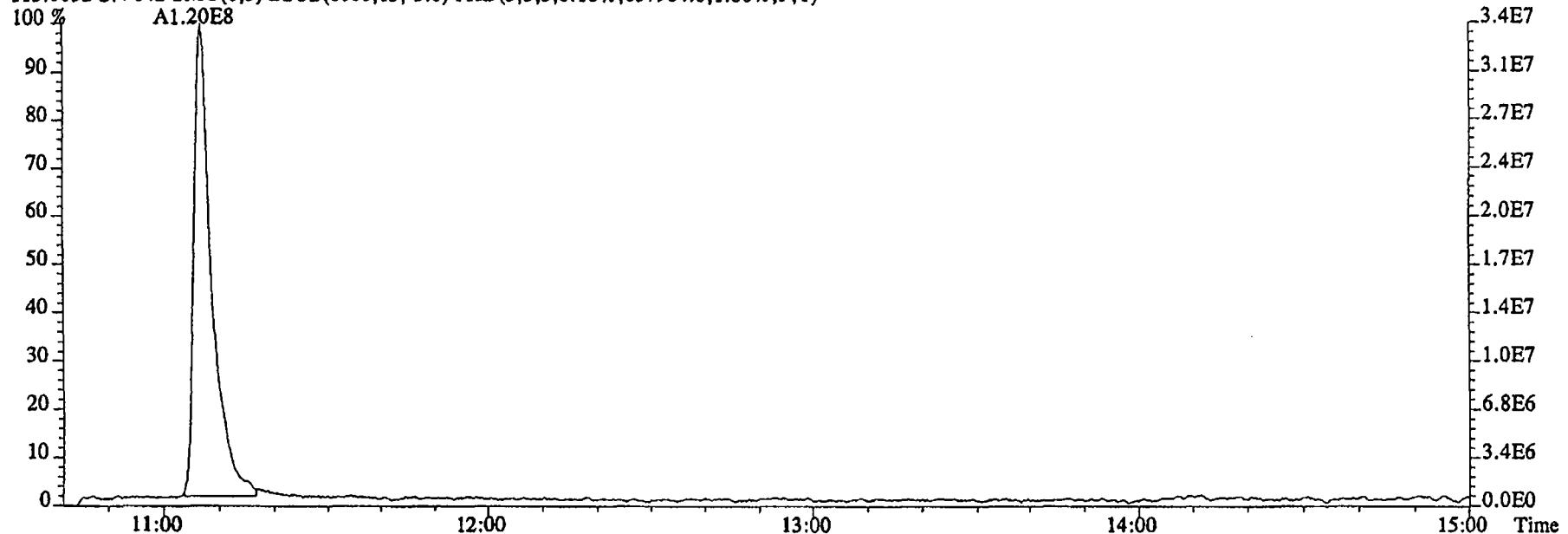
File:29DE045SP #1-474 Acq:29-DEC-2004 14:32:28 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1229C :CS4 2350-68D Exp:NDMAVOA  
74.0480 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19628.0,1.00%,F,T)



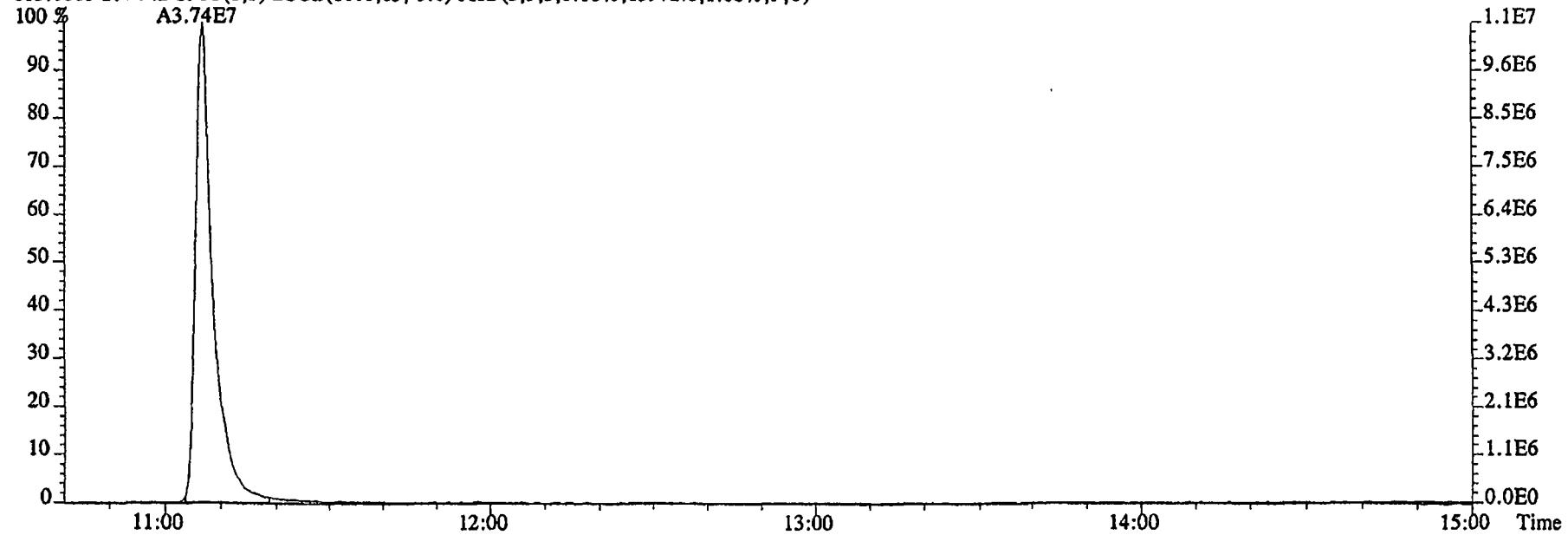
80.0857 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,420.0,1.00%,F,T)



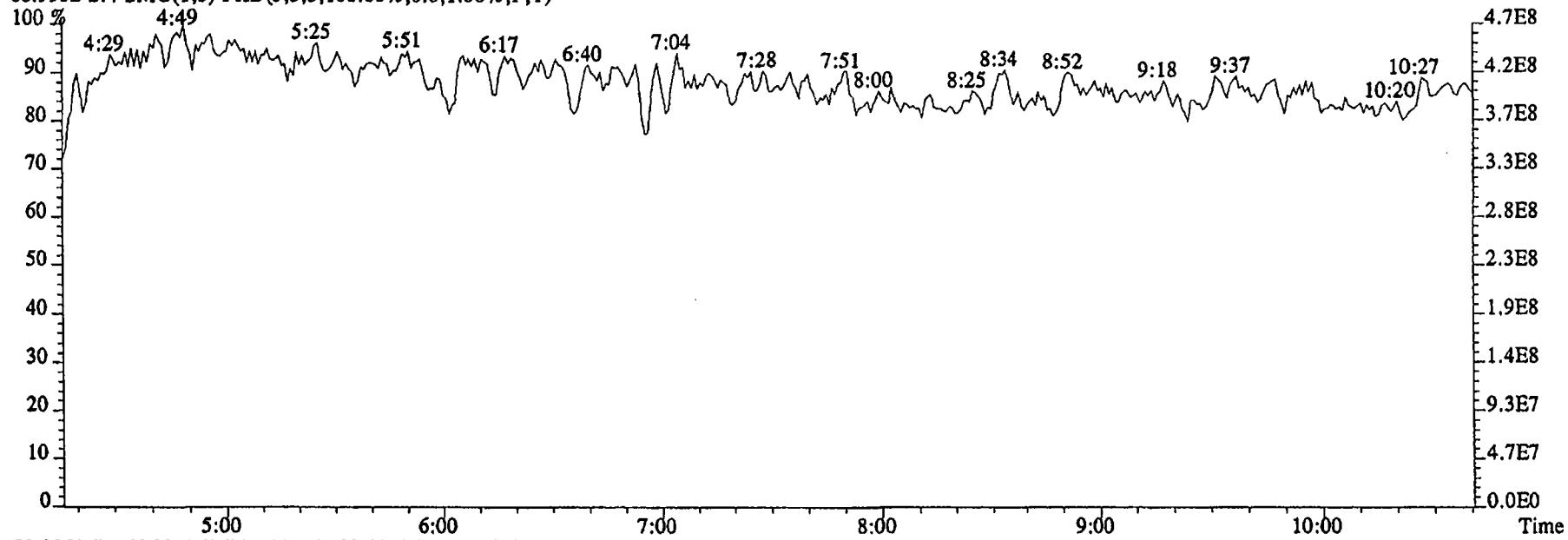
File:29DE045SP #1-602 Acq:29-DEC-2004 14:32:28 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1229C :CS4 2350-68D Exp:NDMAVOA  
113.0032 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,637964.0,1.00%,F,T)



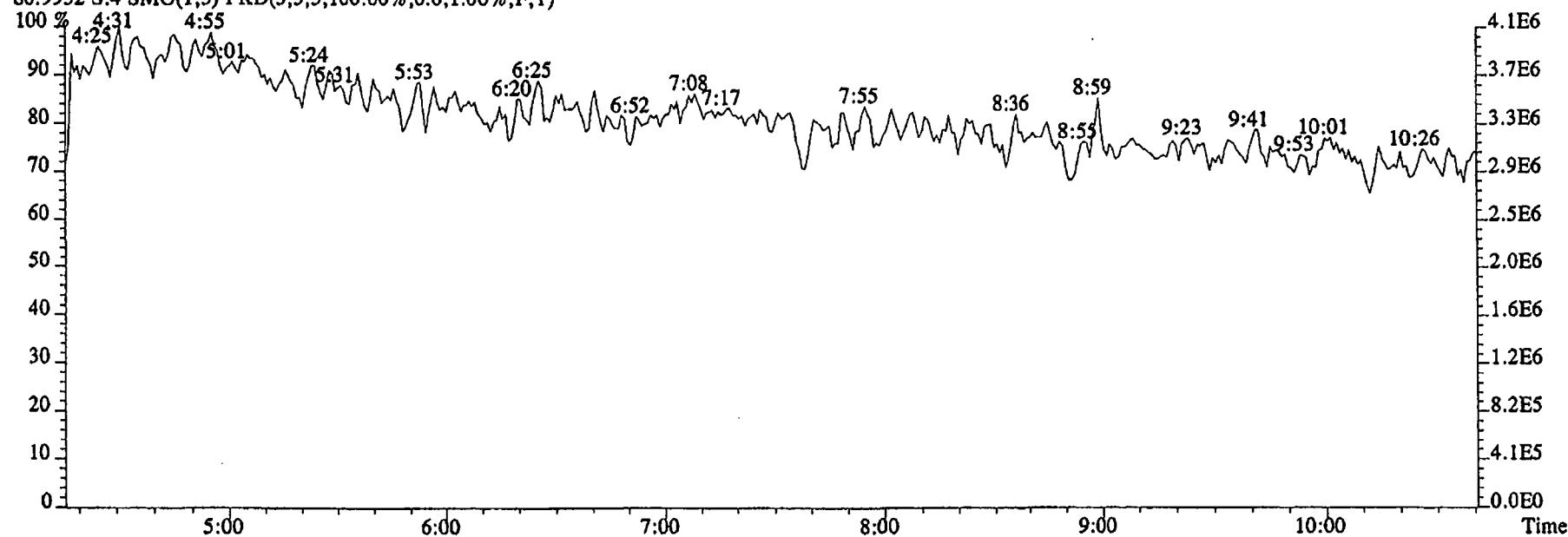
115.0003 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15972.0,1.00%,F,T)



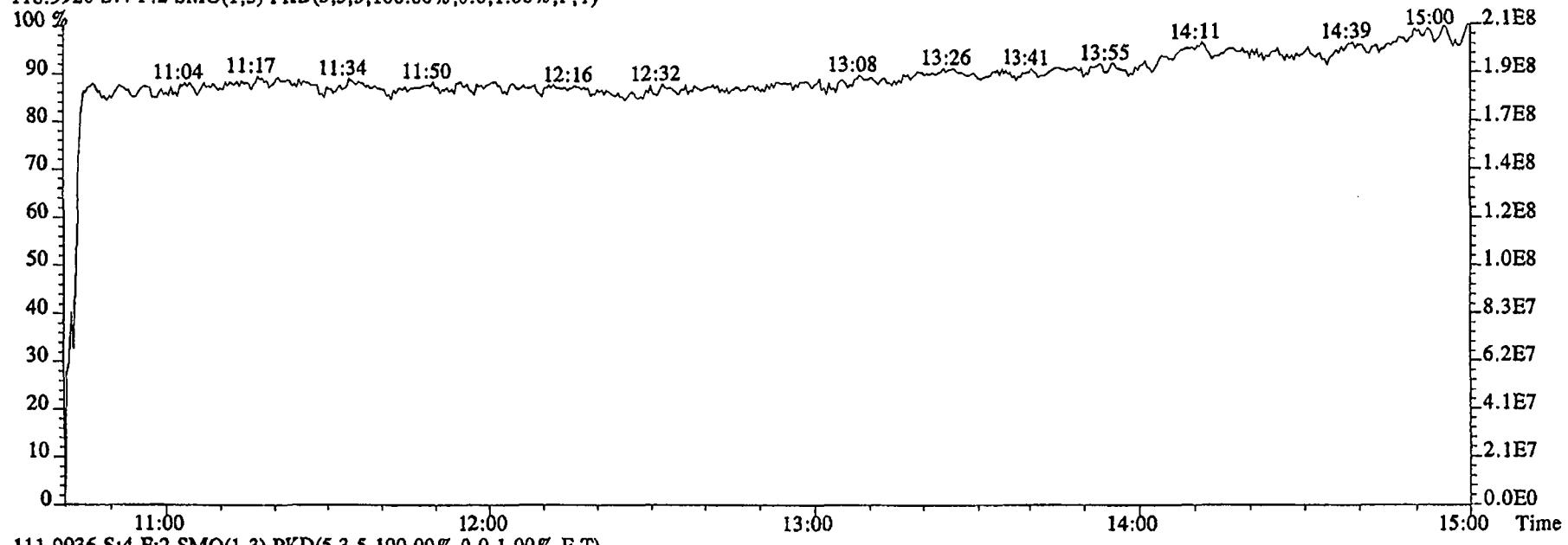
File:29DE045SP #1-474 Acq:29-DEC-2004 14:32:28 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1229C :CS4 2350-68D Exp:NDMAVOA  
68.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



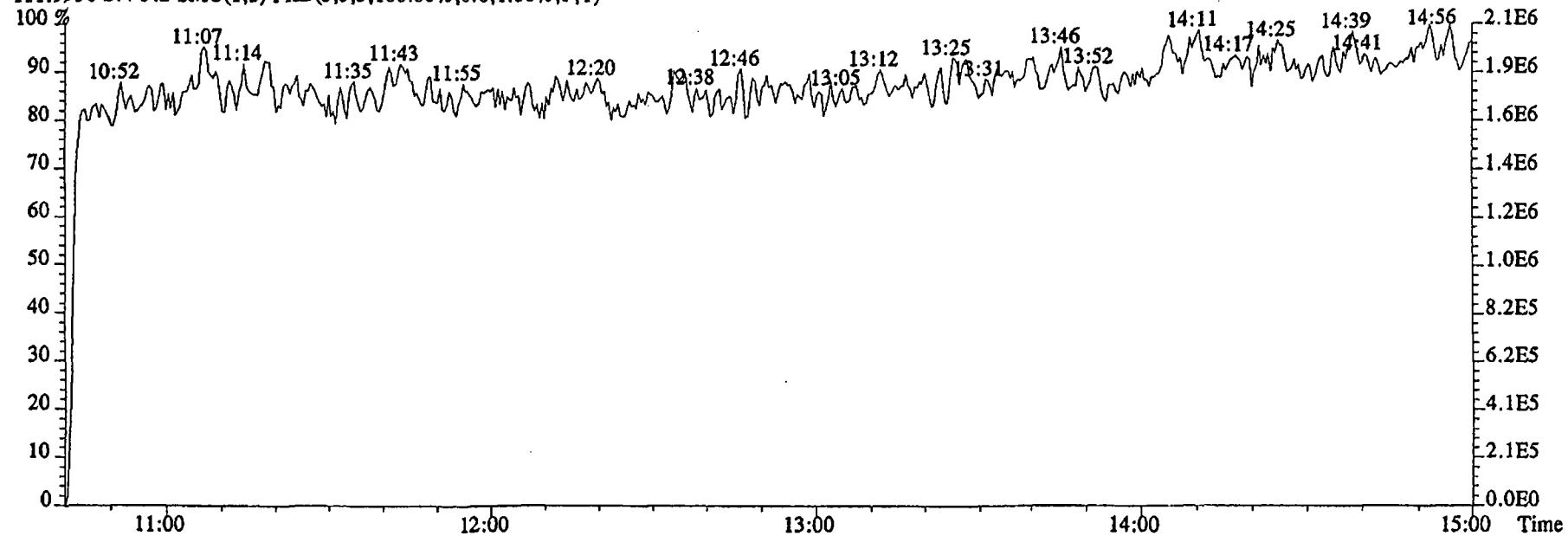
80.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



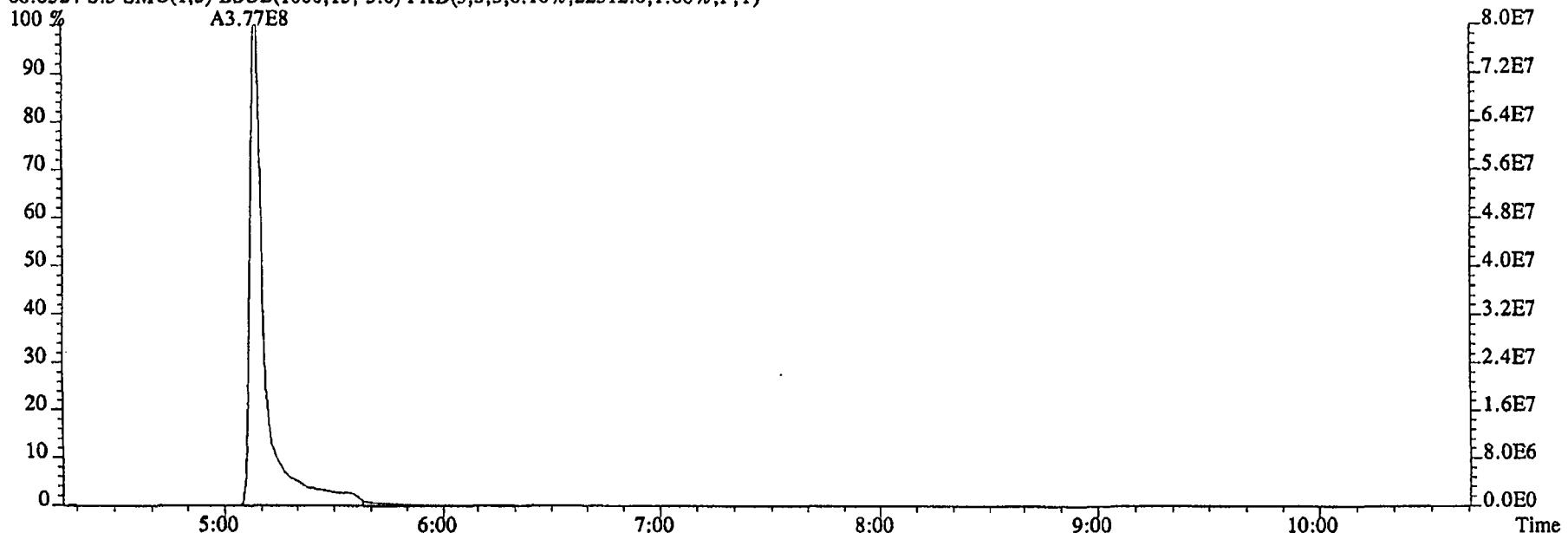
File:29DE045SP #1-602 Acq:29-DEC-2004 14:32:28 GC EI+ Voltage SIR 70SE  
Sample#4 Text:ST1229C :CS4 2350-68D Exp:NDMAVOA  
118.9920 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



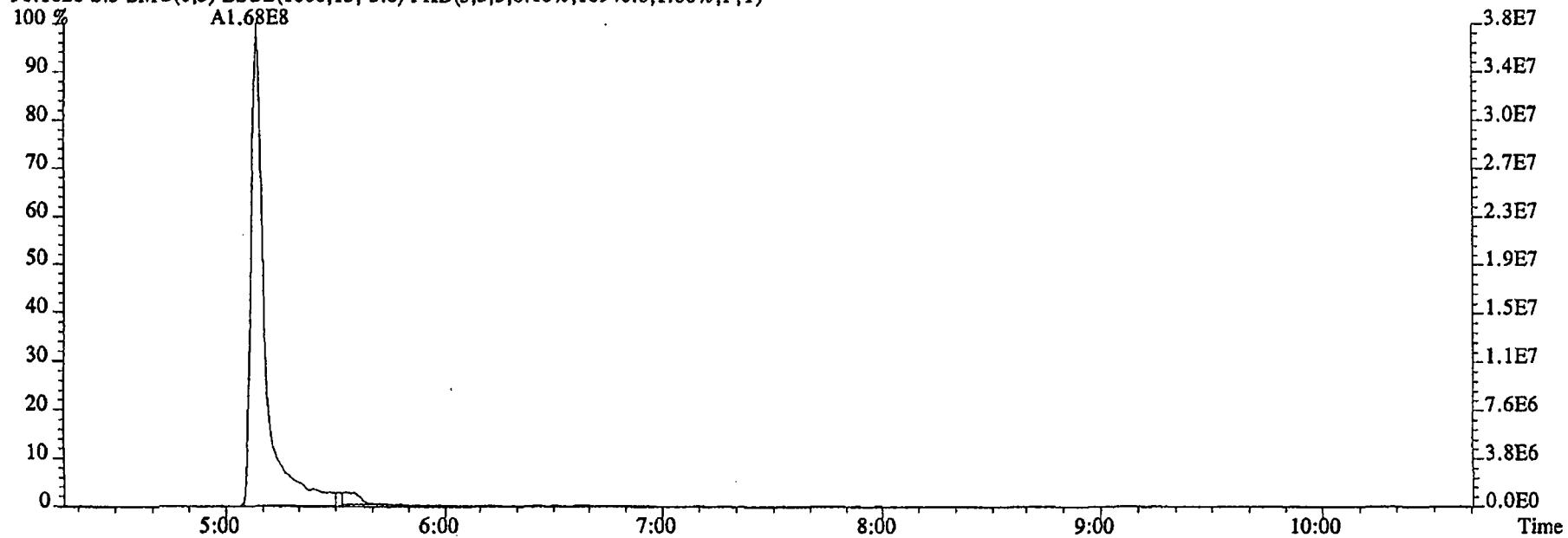
111.9936 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



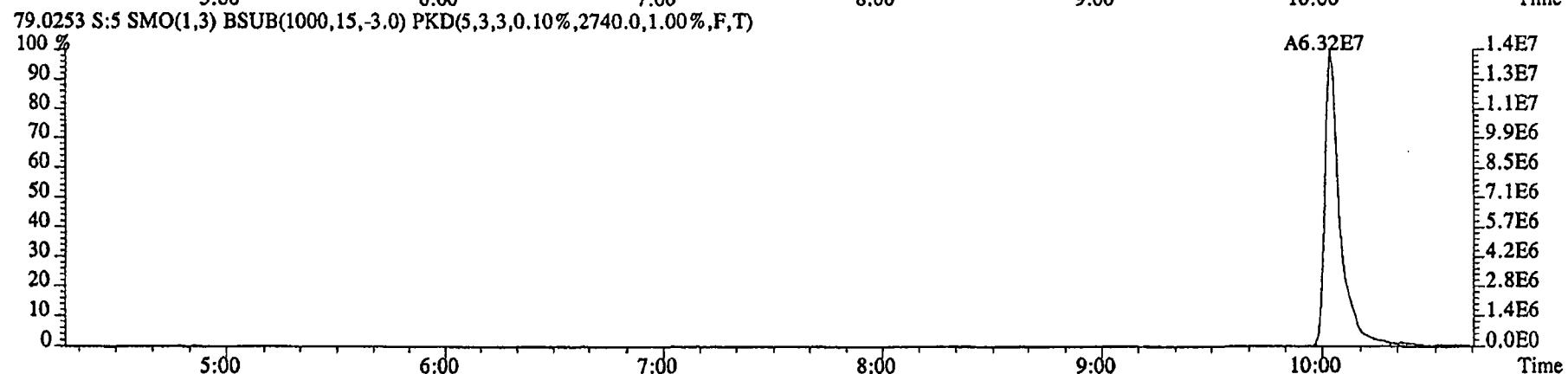
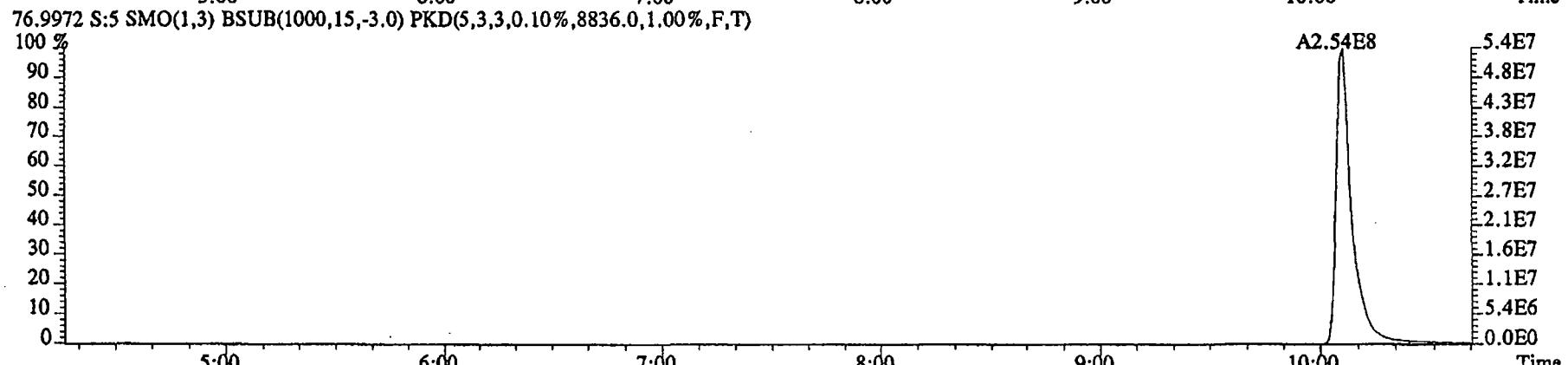
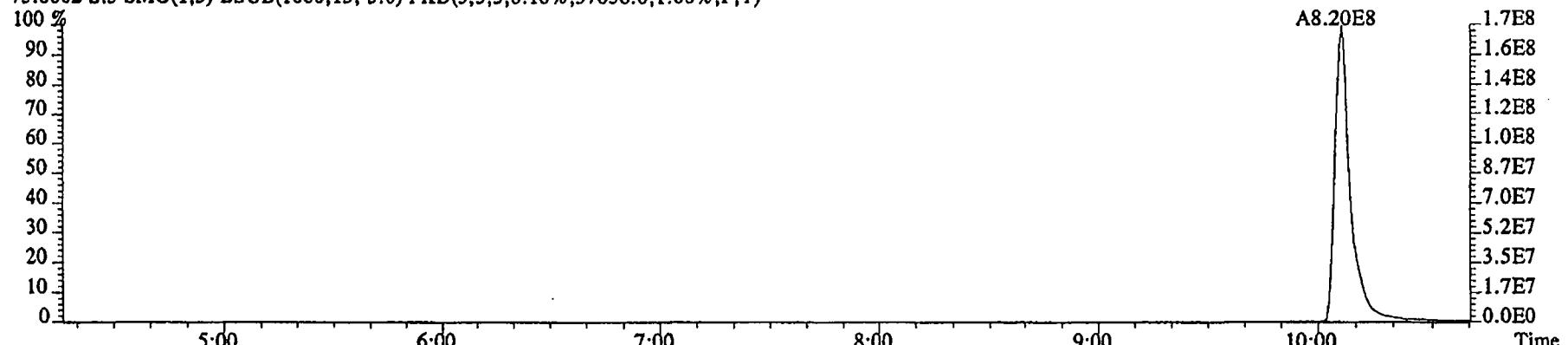
File:29DE045SP #1-474 Acq:29-DEC-2004 14:52:54 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1229D :CSS 2350-68E Exp:NDMAVOA  
88.0524 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22512.0,1.00%,F,T)



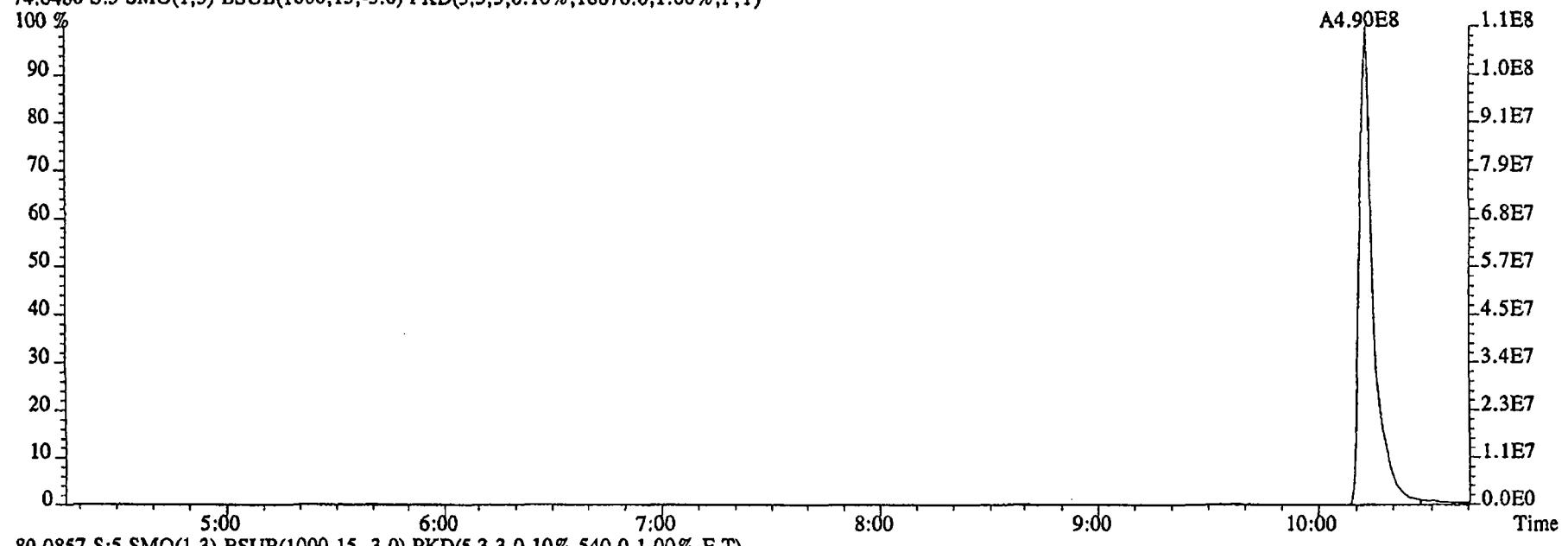
96.1026 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10940.0,1.00%,F,T)



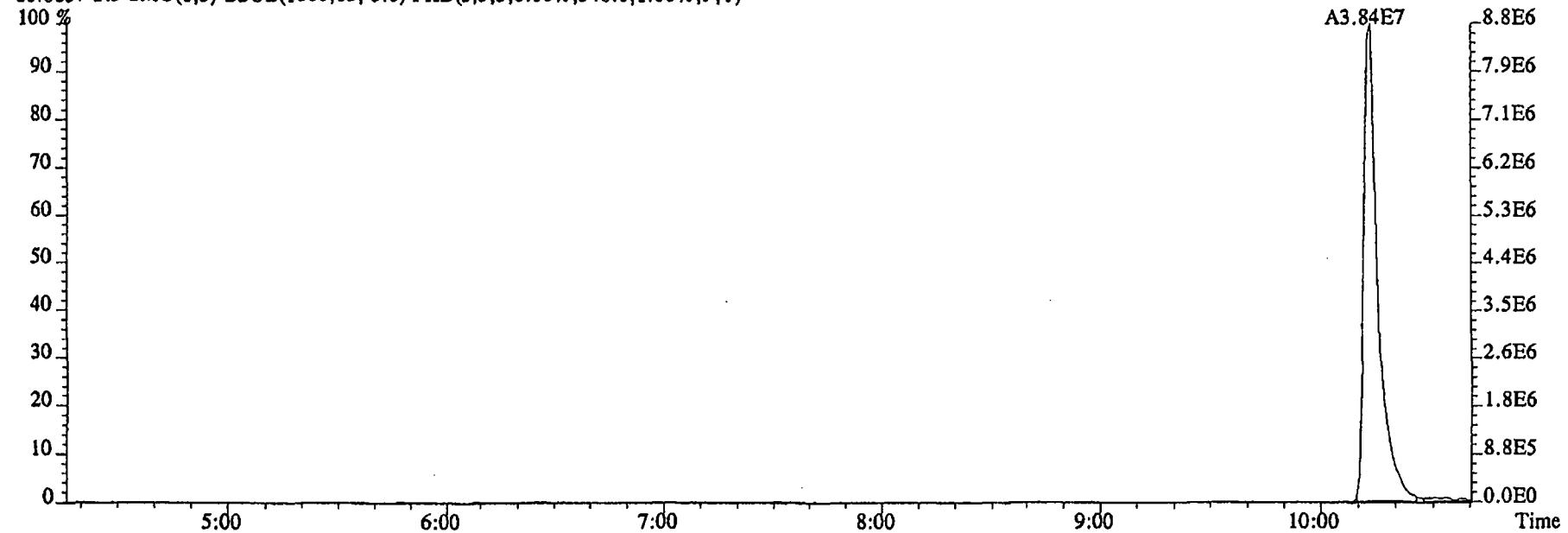
File:29DE045SP #1-474 Acq:29-DEC-2004 14:52:54 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1229D :CS5 2350-68E Exp:NDMAVOA  
75.0002 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37056.0,1.00%,F,T)



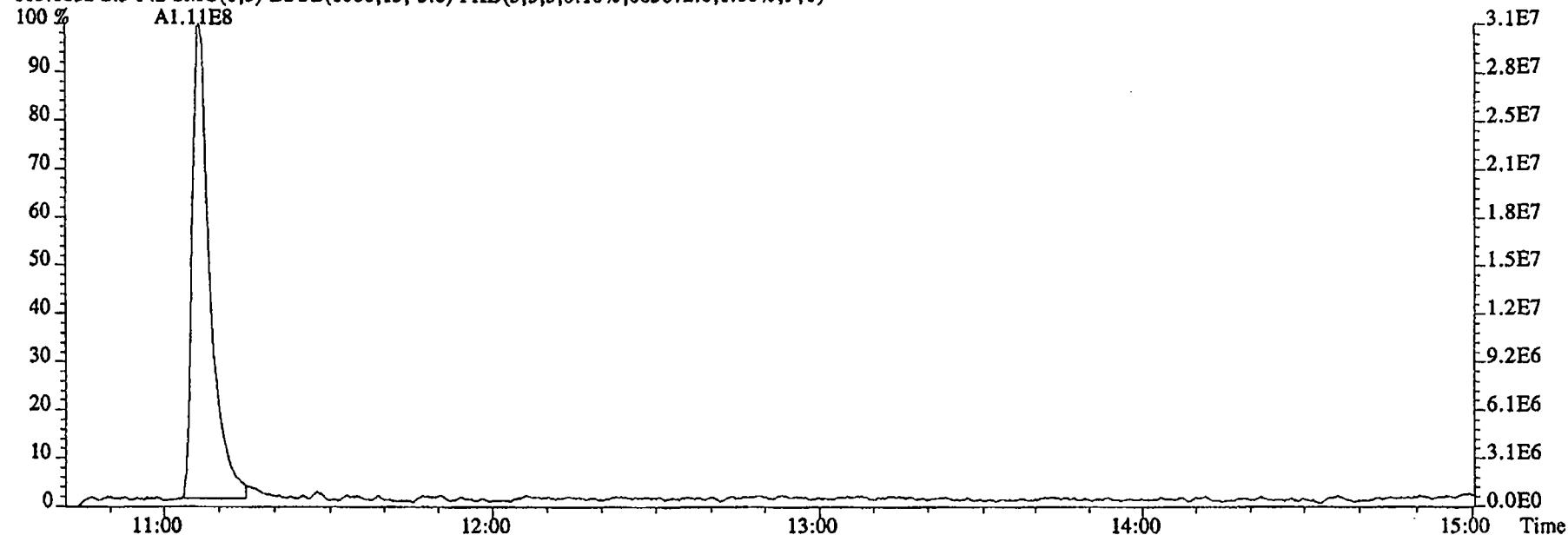
File:29DE045SP #1-474 Acq:29-DEC-2004 14:52:54 GC EI + Voltage SIR 70SE  
Sample#5 Text:ST1229D :CS5 2350-68E Exp:NDMAVOA  
74.0480 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18876.0,1.00%,F,T)



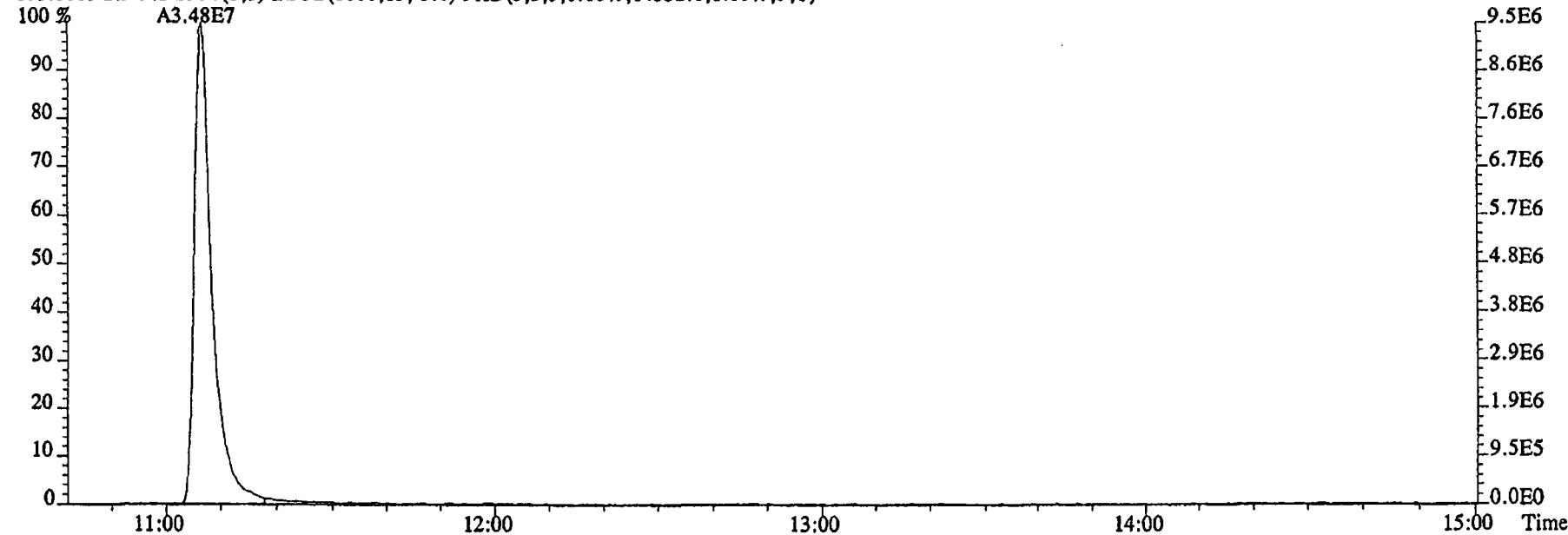
80.0857 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,540.0,1.00%,F,T)



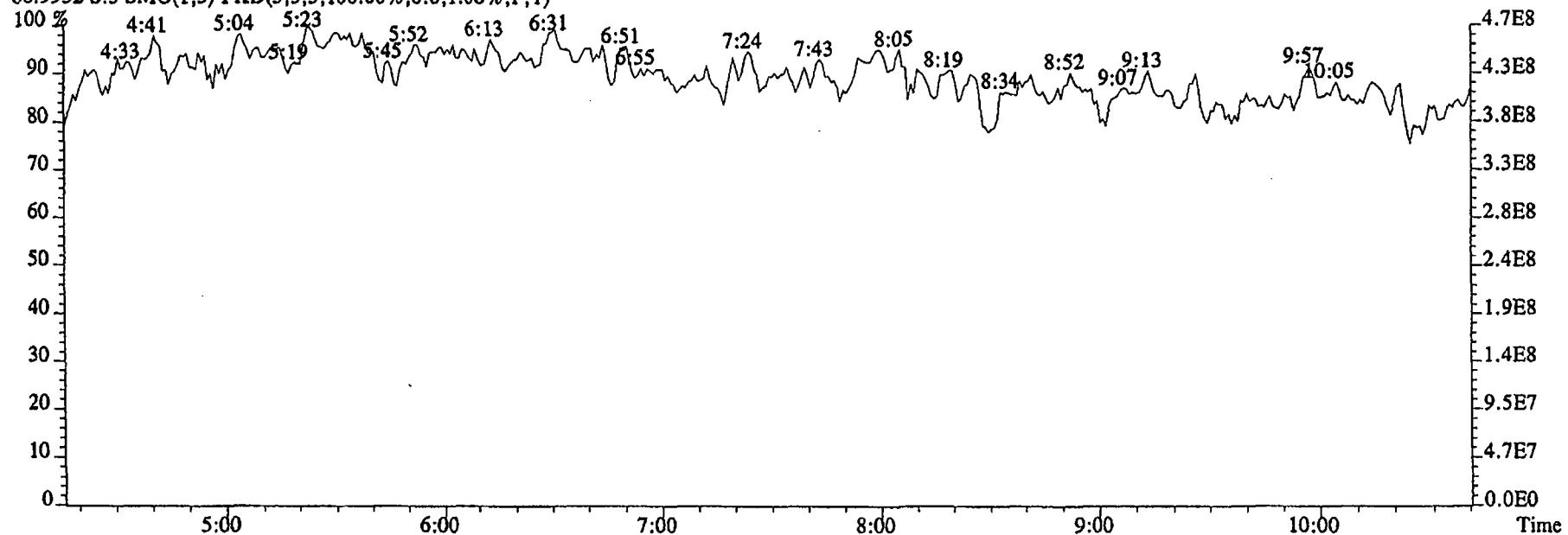
File:29DE045SP #1-603 Acq:29-DEC-2004 14:52:54 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1229D :CS5 2350-68E Exp:NDMAVOA  
113.0032 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,685672.0,1.00%,F,T)



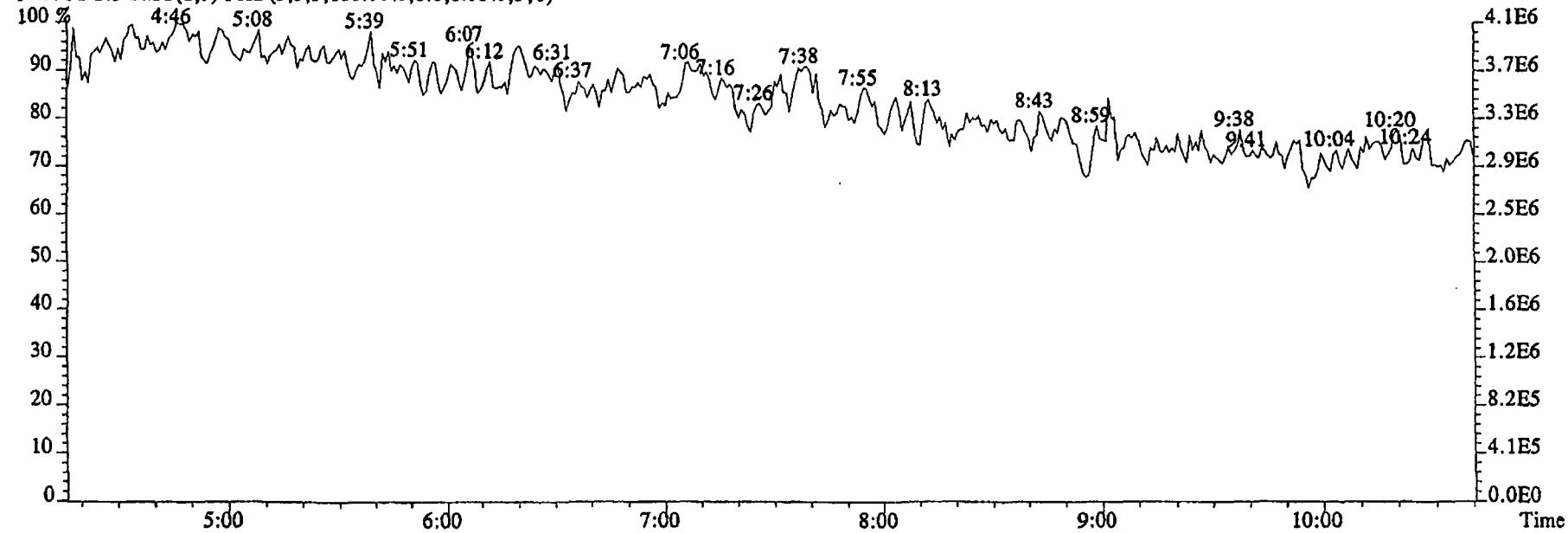
115.0003 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14552.0,1.00%,F,T)



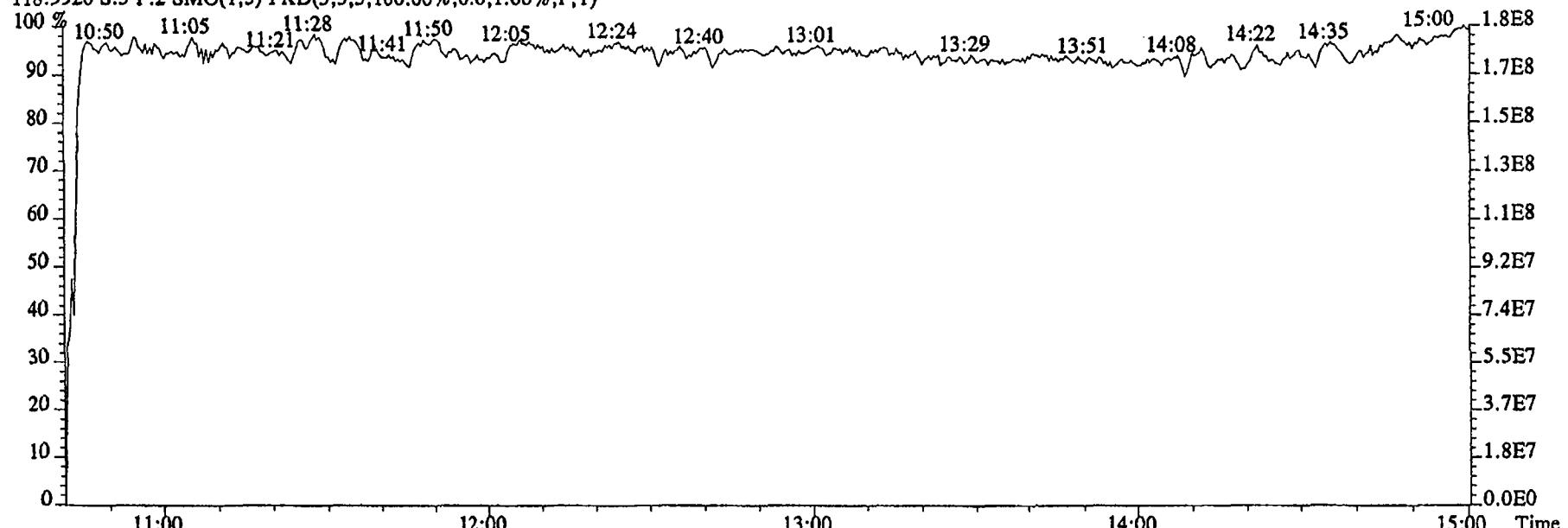
File:29DE045SP #1-474 Acq:29-DEC-2004 14:52:54 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST1229D :CS5 2350-68E Exp:NDMAVOA  
 68.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



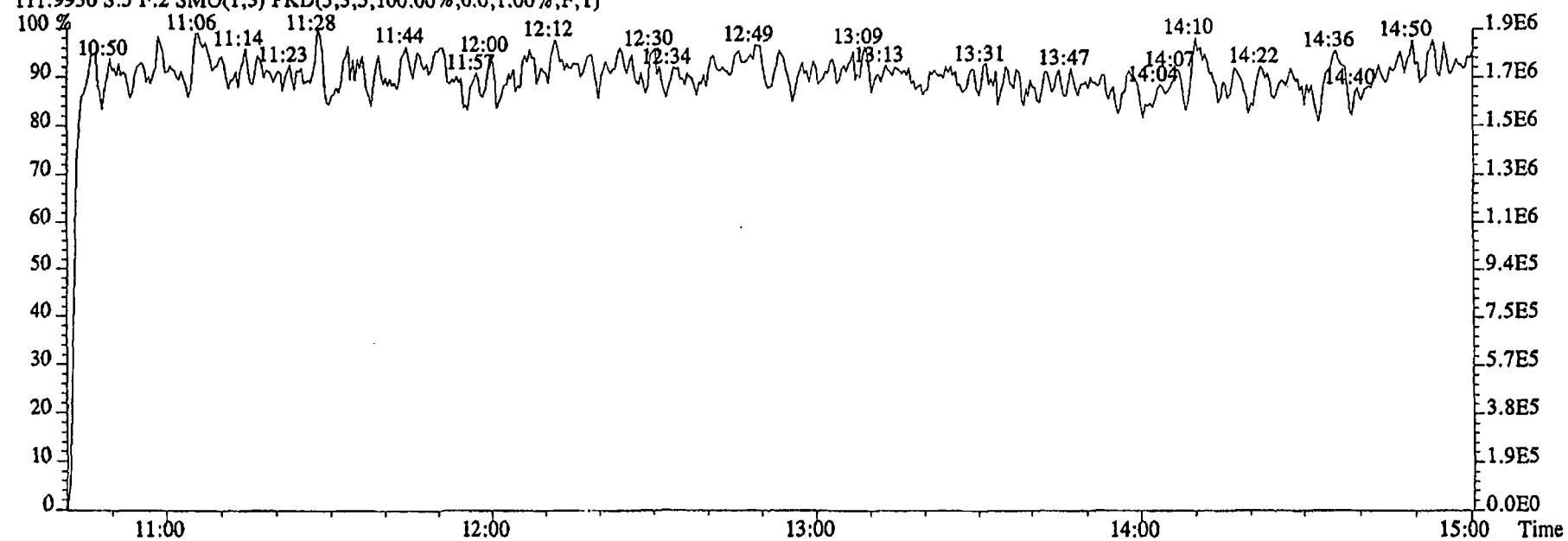
80.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:29DE045SP #1-603 Acq:29-DEC-2004 14:52:54 GC EI+ Voltage SIR 70SE  
Sample#5 Text:ST1229D :CS5 2350-68E Exp:NDMAVOA  
118.9920 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



**Sample Extraction/Preparation Log**  
**Copies and Checklists**





STL Sacramento  
Data Checklist  
High Resolution and Low Resolution Analyses

SEVERN  
TRENT  
SERVICES

Lot ID #: G4L090480 Method ID: Semivolatiles by HRGC/HRMS (1625 Modified)

Sample # 1 - 3

(For Internal COC requests only)

Date Delivered to Inst.: \_\_\_\_\_ Delivered By: \_\_\_\_\_ Delivered To: \_\_\_\_\_

DB-5 Sc-2331

DB-225

Data Analyst: CJ  
Date initiated: 2-30-04  
Reviewer: JCL  
Date reviewed: 01/10/05

NA

QA/QC verification:

- Daily standard package(s) present?
- Method Blank present?
- LCS/DCS copy present and meets native recovery criteria?
- Internal standard recoveries within limits?\*
- Ion ratios within + 15% of theoretical values?  NA
- Other QC (Dup, MS, SD) within specs?\*\*  NA

	Initiated DB-5 Sc-2331	Reviewed DB-5 Sc-2331	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
- Daily standard package(s) present?	/	/	NA	NA
- Method Blank present?	/	/		
- LCS/DCS copy present and meets native recovery criteria?	/	/		
- Internal standard recoveries within limits?*	/	/		
- Ion ratios within + 15% of theoretical values?	NA	NA		
- Other QC (Dup, MS, SD) within specs?**	NA	NA		

Sample Analysis:

- Correct sample aliquot used?
- All raw data present?
- Standard target DL's used? If RL's are used specify:  na
- DL's below TDL / LCL (please circle)?  (LCL)
- All positives reported at levels greater than method blank DL's?  (1)
- Correct RRF's used for method?
- Internal standard amounts correct for method?
- Target analytes are not saturated?
- Dilution/splitting of extract taken into account?  NA
- Have dilution calculations been verified?  NA
- Has a manual calculation for the sequence(s) been verified?
- Are retention times (RT) correct?
- Manual integrations checked?  /

Comments: (Use other side if necessary)

① See NEMI

\* Recovery limits:

NCASI 551: 40-120%\*\*\*  
Method 8290: 40-135%\*\*\*  
Method 1613: 25-150%\*\*\*  
Method 23: 40-130%\*\*\* (Cl4-Cl6), 25-130% (Cl7-8), 70-130% (surr.)  
CARB 428: 40-120%\*\*\*  
CARB 429: 50-150%\*\*\*  
PCBs: 25-150%\*\*\*  
DBD/DBF: 20-150%\*\*\*  
Method 8280: 40-120%\*\*\*  
DFLM01.0: 25-150%\*\*\*  
\*\*\* = 100%

\*\*RPD limits:

50%  
20%  
50%  
50%  
50%  
50%  
50%  
50%

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 12/13/04  
Time: 13:39:46

<u>LEV</u>	<u>LEV</u>	<u>LEV</u>	<u>LEV</u>
-	-	Blank	Weights/Volumes
-	-	Check	Spike & Surrogate Worksheet
-	-	MS/MSD	Vial contains correct volume
-	-		Labels, greenbars, worksheets
-	-		computer batch: correct & all match
-	-		Anomalies to Extraction Method

- Expanded Deliverable
- COC Completed
- Bench Sheet Copied
- Package Submitted to Analytical Group
- Bench Sheet Copied per COC

Extractionist: \_\_\_\_\_

\*\*\*\*\*  
\* QC BATCH: 4348402 \*  
\* COMP DATE: 12/13/04 10:00  
\*\*\*\*\*

Concentrationist: \_\_\_\_\_

Reviewer/Date: \_\_\_\_\_ / 0/00/00

Semivolatiles by HRGC/HRMS (1625 Modified)  
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

<u>EXTR EXPR</u>	<u>ANL DUE</u>	<u>LOT#, MSRUN#/ WORK ORDER</u>	<u>TEST FLGS</u>	<u>EXT</u>	<u>MTH</u>	<u>MATRIX</u>	<u>INIT/FIN WT/VOL</u>	<u>PH'S INIT</u>	<u>ADJ1</u>	<u>ADJ2</u>	<u>EXTRACTION</u>	<u>SOLVENTS VOL EXCHANGE</u>	<u>VOL</u>	<u>SPIKE STANDARD/ SURROGATE ID</u>
12/14/04	12/21/04	E4L080175-004 G0HM6-1-AE COMMENTS:		09	6A	WATER	964.7mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35
12/14/04	12/21/04	E4L080175-005 G0HM7-1-AE COMMENTS:		09	6A	WATER	995.1mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35
12/14/04	12/28/04	G4L080479-001 G0K68-1-AC COMMENTS:	D	09	6A	WATER	943.4mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35
12/14/04	12/28/04	G4L080479-002 G0K69-1-AC COMMENTS:	D	09	6A	WATER	974.2mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35
12/14/04	12/28/04	G4L080479-003 G0K7A-1-AC COMMENTS:	D	09	6A	WATER	968.3mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35
12/14/04	12/28/04	G4L080479-004 G0K7D-1-AC COMMENTS:	D	09	6A	WATER	928.1mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35
12/14/04	12/28/04	G4L080479-005 G0K7E-1-AC COMMENTS:	D	09	6A	WATER	928.3mL 20.00uL	NA	NA	NA	DCM	120.0	.0	100UL 2416-35

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 12/13/04  
Time: 13:39:46

\*\*\*\*\*  
 \* QC BATCH: 4348402 \* PREP DATE: 12/13/04 10:00  
 \* COMP DATE: 12/14/04 19:00  
 \*\*\*\*\*

EXTR EXPR	ANL DUE	LOT#_MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S	SOLVENTS	VOL	SPIKE STANDARD/ SURROGATE ID	
								INIT	ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE VOL
12/14/04	12/28/04	G4L080479-006 GOK7F-1-AC	D	09	6A	WATER	935.7mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
12/14/04	12/30/04	G4L090264-001 GOMLW-1-AA		09	6A	WATER	966.0mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
12/15/04	12/29/04	G4L090480-001 GOPC2-1-AC	D	09	6A	WATER	966.1mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
12/15/04	12/29/04	G4L090480-002 GOPC4-1-AC	D	09	6A	WATER	985.6mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
12/15/04	12/29/04	G4L090480-003 GOPCS-1-AC	D	09	6A	WATER	961.0mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
12/14/04	0/00/00	G4L130000-402 GOKDP-1-AAB		09	6A	WATER	1000mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
12/14/04	0/00/00	G4L130000-402 GOKDP-1-ACC		09	6A	WATER	1000mL 20.00uL	NA	NA	NA	DCM	120.0
COMMENTS:												.0
												100UL 2350-67
												100UL 2416-35

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R = RUSH      C = CLP  
 E = EPA 600    D = EXP.DEL)  
 M = CLIENT REQ MS/MSD  
 \*\*

NUMBER OF WORK ORDERS IN BATCH: 14

DCS is only required when a client requests one or a MS/SD is requested and limited sample size is available.

G4L090480

6A

Please Circle Extraction Type if used:  
Soxhlet / Soxhtherm / DI TCLP

Ext. 1

Ext. 2

Extraction time on: \_\_\_\_\_

Extraction time off: \_\_\_\_\_

Semivolatiles by HRGC/HRMS (1625 Modified)

Sample #	Suff	Sugg. Sample Size	Actual Sample Size	613 Extraction	* Final Volume						
				Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date
MB		/	/	/							
LCS											
DCS											
1	RX	1000uL	973.3	12/22/04	12.22.04 00H						
2	RX		976.4								
3	RX		985.2								

All Samples  
I.S. ID  
Added Vol./Conc.

100uL 2416-35

By: *[Signature]*

Witness:

Date: 12/22/04

*VDA*

LCS/DCS/MS/SD  
N.S. ID  
Added Vol./Conc.

—

By: —

Witness:

Date: —

—

All Samples  
CRS/Surr ID  
Added Vol./Conc.

—

By: —

Witness:

Date: —

—

All Samples  
R.S. ID  
Added Vol./Conc.

200uL/2416-41

By: *BPH*

Witness:

Date: DEC 22 2004

—

Comments (Including Dilution at FV Information):

QC Lot ID: G4L080479  
Batch: 4357371

Associated Samples:

Batch:

Method:

Extraction  
Solvents Used:

Solvent Lot #:

DCM  
H2O

—

\*Note: Final Volume column is used when the analyst who performed the addition of the Recovery Standard is different than the individual who concentrated the sample to the final volume. Also, if the final volume is different than the volume of Recovery Standard added, please denote in this column as well.



# **STL Sacramento Data Checklist**

**SEVERN  
TRENT  
SERVICES**

Lot ID #: G4L090480 Method ID: Semivolatiles by HRGC/HRMS (1625 Modified)  
Sample #: 1RX - 3RX

(For internal COC requests only)

Date Delivered to Inst.: \_\_\_\_\_ Delivered By: \_\_\_\_\_ Delivered To: \_\_\_\_\_

DB-225 (P-233)

DB-225

**Data Analyst:** CJ  
**Date initiated:** 12/20/01  
**Reviewer:** JCL  
**Date reviewed:** 01/10/05

DB-225

#### **QA/QC verification:**

	DB-5 51-233	DB-5 51-233	DB-225 (High Res Only)	DB-225 (High Res Only)
-Daily standard package(s) present?	✓	✓	NA	NA
-Method Blank present?	✓	✓	—	—
-LCS/DCS copy present and meets native recovery criteria?	✓	✓	—	—
-Internal standard recoveries within limits?*	✓	✓	—	—
-Ion ratios within + 15% of theoretical values?	nm(i)	NA	—	—
-Other QC (Dup,MS,SD) within specs??	NA	NA	—	—

## Sample Analysis:

Sample Analysis:	<u>Initiated</u>	<u>Reviewed</u>	<u>Initiated</u>	<u>Reviewed</u>
-Correct sample aliquot used?	✓	✓		
-All raw data present?	✓	✓		
-Standard target DL's used? If RL's are used specify: <u>n/a</u>	✓	✓		
-DL's below TDL / LCL (please circle)? <u>(2)</u>	✓(2)	✓		
-All positives reported at levels greater than method blank DL's?	✓(1)	✓		
-Correct RRF's used for method?	✓	✓		
-Internal standard amounts correct for method?	✓	✓		
-Target analytes are not saturated?	✓	✓		
-Dilution/splitting of extract taken into account?	n/a	n/a		
-Have dilution calculations been verified?	n/a	n/a		
-Has a manual calculation for the sequence(s) been verified?	✓	✓		
-Are retention times (RT) correct?	✓	✓		
-Manual integrations checked?	✓	✓		

**Comments:** (Use other side if necessary)

Do See NCM

<b>* Recovery limits:</b>	
NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%*** (Cl4-Cl6), 25-130% (Cl7-8), 70-130% (surv.)
CARB 428:	40-120%***
CARB 429:	50-150%***
PCBs:	25-150%***
DBD/DBF	20-150%***
Method 8280:	40-120%***
DFLM01.0:	25-150%***

**\*\*RPD limits**

---

50%  
20%  
50%  
50%  
50%  
50%  
50%

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 12/22/04  
Time: 13:25:27

LEV	LEV	LEV	LEV	
-	-	Blank	-	Weights/Volumes
-	-	Check	-	Spike & Surrogate Worksheet
-	-	MS/MSD	-	Vial contains correct volume
-	-		-	Labels, greenbars, worksheets
-	-		-	computer batch: correct & all match
-	-		-	Anomalies to Extraction Method

- Expanded Deliverable
- COC Completed
- Bench Sheet Copied
- Package Submitted to Analytical Group
- Bench Sheet Copied per COC

Extractionist: \_\_\_\_\_

Concentrationist: \_\_\_\_\_

Reviewer/Date: \_\_\_\_\_ / 00/00

Semivolatiles by HRGC/HRMS (1625 Modified)  
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH'S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
12/14/04	12/28/04	G4L080479-001 GOK68-2-AC	D	09	6A	WATER	973.5uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35
12/14/04	12/28/04	G4L080479-002 GOK69-2-AC	D	09	6A	WATER	972.0uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35
12/14/04	12/28/04	G4L080479-003 GOK7A-2-AC	D	09	6A	WATER	652.0uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35
12/14/04	12/28/04	G4L080479-004 GOK7D-2-AC	D	09	6A	WATER	932.6uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35
12/14/04	12/28/04	G4L080479-005 GOK7E-2-AC	D	09	6A	WATER	928.2uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35
12/14/04	12/28/04	G4L080479-006 GOK7F-2-AC	D	09	6A	WATER	896.1uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35
12/14/04	12/30/04	G4L090264-001 GOMLW-2-AA		09	6A	WATER	969.5uL 20.00uL	NA	NA	NA	DCM	120.0	.0	100uL 2416-35

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 12/22/04  
Time: 13:25:27

\*\*\*\*\*  
\* QC BATCH: 4357371 \* PREP DATE: 12/22/04 10:00  
\* COMP DATE: 12/24/04 20:00  
\*\*\*\*\*

<u>EXTR EXPR</u>	<u>ANL DUE</u>	<u>LOT#, MSRUN#/ WORK ORDER</u>	<u>TEST FLGS</u>	<u>EXT</u>	<u>MTH</u>	<u>MATRIX</u>	<u>INIT/FIN WT/VOL</u>	<u>PH'S</u>	<u>SOLVENTS</u>	<u>SPIKE STANDARD/ SURROGATE ID</u>			
								<u>INIT</u>	<u>ADJ1</u>	<u>ADJ2</u>	<u>EXTRACTION VOL</u>	<u>EXCHANGE VOL</u>	<u>VOL</u>
12/15/04	12/29/04	G4L090480-001 COMMENTS:	D	09	6A	WATER	973.3uL 20.00uL	NA	NA	NA	DCM	120.0	.0 100UL 2416-35
12/15/04	12/29/04	G4L090480-002 COMMENTS:	D	09	6A	WATER	976.4uL 20.00uL	NA	NA	NA	DCM	120.0	.0 100UL 2416-35
12/15/04	12/29/04	G4L090480-003 COMMENTS:	D	09	6A	WATER	985.2uL 20.00uL	NA	NA	NA	DCM	120.0	.0 100UL 2416-35
12/16/04	12/30/04	G4L100385-005 COMMENTS:	D	09	6A	WATER	915.4uL 20.00uL	NA	NA	NA	DCM	120.0	.0 100UL 2416-35
12/14/04	0/00/00	G4L220000-371 COMMENTS:		09	6A	WATER	1000uL 20.00uL	NA	NA	NA	DCM	120.0	.0 100UL 2416-35
12/14/04	0/00/00	G4L220000-371 COMMENTS:		09	6A	WATER	1000uL 20.00uL	NA	NA	NA	DCM	120.0	.0 100UL 2350-67 100UL 2416-35

R = RUSH      C = CLP  
E = EPA 600    D = EXP.DEL)  
M = CLIENT REQ MS/MSD  
†

NUMBER OF WORK ORDERS IN BATCH: 13

*WATER, 410.4, Demand, Chemical Oxygen*

CH2M Hill Inc

Client Sample ID: OC2-MW10A-W-0-104

General Chemistry

Lot-Sample #....: G4L090480-001    Work Order #....: G0PC2    Matrix.....: WATER  
Date Sampled....: 12/08/04    Date Received...: 12/09/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)	4.6 B,J	10.0	mg/L	MCANW 410.4	12/14/04	4349279
				MDL.....: 3.1		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**CH2M Hill Inc**

**Client Sample ID: OC2-MW3A-W-0-105**

**General Chemistry**

**Lot-Sample #....: G4L090480-002      Work Order #....: G0PC4      Matrix.....: WATER**  
**Date Sampled....: 12/08/04      Date Received...: 12/09/04**

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Chemical Oxygen Demand (COD)	4.2 B,J	10.0	mg/L	MCAWW 410.4	12/14/04	4349279
			MDL.....	3.1		

**NOTE (S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

**CH2M Hill Inc**

**Client Sample ID: OC2-MW2A-W-0-106**

**General Chemistry**

**Lot-Sample #....: G4L090480-003      Work Order #....: G0PC5      Matrix.....: WATER**  
**Date Sampled...: 12/08/04      Date Received...: 12/09/04**

<b>PARAMETER</b>	<b>RESULT</b>	<b>RL</b>	<b>UNITS</b>	<b>METHOD</b>	<b>PREPARATION-</b>	<b>PREP</b>
					<b>ANALYSIS DATE</b>	<b>BATCH #</b>
<b>Chemical Oxygen Demand (COD)</b>	<b>8.0 B,J</b>	<b>10.0</b>	<b>mg/L</b>	<b>MCAWW 410.4</b>	<b>12/14/04</b>	<b>4349279</b>
				<b>MDL.....: 3.1</b>		

**NOTE(S) :**

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## QC DATA ASSOCIATION SUMMARY

G4L090480

### Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 410.4		4349279	4349172
002	WATER	MCAWW 410.4		4349279	4349172
003	WATER	MCAWW 410.4		4349279	4349172

METHOD BLANK REPORT

General Chemistry

Client Lot #....: G4L090480

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
		LIMIT	UNITS				
Chemical Oxygen Demand (COD)	5.2 B	10.0	mg/L	MCAWW 410.4	12/14/04	4349279	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: G4L090480

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	109	(85 - 115)	Work Order #: G002T1AC LCS Lot-Sample#: G4L140000-279 MCAWW 410.4	12/14/04	4349279

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G4L090480

Matrix.....: WATER

PARAMETER	SPIKE	MEASURED	PERCNT		PREPARATION-	PREP	
	AMOUNT	AMOUNT	UNITS	RECVRY	METHOD	ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)			Work Order #:	G002T1AC	LCS	Lot-Sample#:	G4L140000-279
	49.6	53.8	mg/L	109	MCAWW	410.4	12/14/04 4349279

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: G4L090480

Date Sampled....: 12/06/04

Date Received...: 12/07/04

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-	PREP	ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)			WO#:	G0GT81AD-MS/G0GT81AE-MSD	MS	Lot-Sample #:	G4L070405-001		
	99	(75 - 125)			MCAWW 410.4		12/14/04	4349279	
	100	(75 - 125)	1.2	(0-20)	MCAWW 410.4		12/14/04	4349279	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #....: G4L090480

Matrix.....: WATER

Date Sampled...: 12/06/04

Date Received..: 12/07/04

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION-		PREP	
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD	ANALYSIS	DATE	BATCH #
Chemical Oxygen Demand (COD)				WO#:	G0GT81AD-MS/G0GT81AE-MSD		MS Lot-Sample #:	G4L070405-001		
	ND	50.0	49.5	mg/L	99		MCAWW	410.4	12/14/04	4349279
	ND	50.0	50.1	mg/L	100	1.2	MCAWW	410.4	12/14/04	4349279

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## **Manual Colorimetric Analyses**

***Hexavalent Chromium  
COD  
Sulfide  
T-Phosphorous***

STL Sacramento

LEVEL 1&2 REVIEW CHECKLIST  
GENERAL CHEMISTRY

LAB NUMBERS: G 4L070405; G4L080479; G4L090480; G 4L100 385

ANALYSIS: COD (low) DATE: 12/14/04 ANALYST: Francois

**LEVEL 1 RUN REVIEW:**

1. Samples are properly preserved and verified
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)
3. Calibration criteria met
4. Calibration verifications and second source reference are in control
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)
6. Calculations have been checked
7. QAS +/or QAPP was consulted and followed for client specifics
8. Standard Tracking # noted on benchsheet +/or runlog
9. Manual integration performed, documented and approved

YES	NO	NA
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/

**LEVEL 1 DATA REVIEW:**

1. Benchsheet complete
2. QAS +/or QAPP consulted and followed for client specifics for data entry.
3. Data entered properly
4. Copy of prep sheet and prep checklist attached to run
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.

/	/	/
/	/	/
/	/	/
/	/	/
/	/	/

Completed By & Date: Francois 12/16/04

**LEVEL 2 REVIEW:**

1. Level 1 checklist complete and verified
2. Deviations, Anomalies, Holding times checked and approved
3. Reprep/Reanalysis documented and chemist notified
4. Client specific criteria met
5. Data entry checked and released in Quantims
6. Indication on benchsheet on review and release (dated & signed)
7. Manual integration reviewed, approved, and properly documented

X	/	/
/	/	/
X	/	/
X	/	/
X	/	/
/	/	/

Completed By & Date: 3EV 12/17/04

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/14/04  
Time: 15:20:08

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	RE-RUN QC	RE-RUN MATRIX	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: VO Demand, Chemical Oxygen (410.4)

QC BATCH #: 4349279

INITIALS: \_\_\_\_\_

DATA ENTRY: \_\_\_\_\_

PREP DATE: 12/14/04 10:30

PREP \_\_\_\_\_

INITIALS \_\_\_\_\_

COMP DATE: 12/14/04 12:30

ANAL \_\_\_\_\_

DATE \_\_\_\_\_

USER: FRANCISF

MS# 4349172

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
		Analysis	Del.	Date	Sample ID:
G0GT8-1-AA	G-4L070405-001	XX I 21 VO 01	Y-D	_____	OC2-MW4A-W-0-92
G0GT8-1-AE	G-4L070405-001-D	XX I 21 VO 01	Y-D	_____	OC2-MW4A-W-0-92
G0GT8-1-AD	G-4L070405-001-S	XX I 21 VO 01	Y-D	_____	OC2-MW4A-W-0-92
G0GT9-1-AA	G-4L070405-002	XX I 21 VO 01	Y-D	_____	OC2-MW4B-W-0-93
G0GVA-1-AA	G-4L070405-003	XX I 21 VO 01	Y-D	_____	OC2-MW4B-W-1-94
G0GVC-1-AA	G-4L070405-004	XX I 21 VO 01	Y-D	_____	OC2-MW4C-W-0-95
G0GVE-1-AA	G-4L070405-006	XX I 21 VO 01	Y-D	_____	OC2-MW5A-W-0-97
G0K68-1-AA	G-4L080479-001	XX I 21 VO 01	Y-D	_____	OC2-MW1A-W-0-98
G0K69-1-AA	G-4L080479-002	XX I 21 VO 01	Y-D	_____	OC2-MW1B-W-0-99
G0K7A-1-AA	G-4L080479-003	XX I 21 VO 01	Y-D	_____	OC2-MW6-W-0-100
G0K7D-1-AA	G-4L080479-004	XX I 21 VO 01	Y-D	_____	OC2-MW9B-W-0-101
G0K7E-1-AA	G-4L080479-005	XX I 21 VO 01	Y-D	_____	OC2-MW7A-W-0-102
G0K7F-1-AA	G-4L080479-006	XX I 21 VO 01	Y-D	_____	OC2-MW7A-W-1-103
G0PC2-1-AA	G-4L090480-001	XX I 21 VO 01	Y-D	_____	OC2-MW10A-W-0-104
G0PC4-1-AA	G-4L090480-002	XX I 21 VO 01	Y-D	_____	OC2-MW3A-W-0-105
G0PC5-1-AA	G-4L090480-003	XX I 21 VO 01	Y-D	_____	OC2-MW2A-W-0-106
G0R1N-1-AA	G-4L100385-001	XX I 21 VO 01	Y-D	_____	OC2-MW8A-W-0-107
G0R1W-1-AA	G-4L100385-002	XX I 21 VO 01	Y-D	_____	OC2-MW8B-W-0-108
G0R10-1-AA	G-4L100385-003	XX I 21 VO 01	Y-D	_____	OC2-MW8C-W-0-109

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 12/14/04  
Time: 15:20:08

## STL Sacramento

QC BATCH #: 4349279

INITIALS:

DATA ENTRY:

PREP DATE: 12/14/04 10:30

PREP \_\_\_\_\_

INITIALS \_\_\_\_\_

COMP DATE: 12/14/04 12:30

ANAL \_\_\_\_\_

DATE \_\_\_\_\_

USER: FRANCISF

Work Order	Lab Number	Structured	Exp.	Analysis	Sample ID:
		Analysis	Del.	Date	
G0R12-1-AA	G-4L100385-004	XX I 21 VO 01	Y-D	_____	OC2-MW8D-W-0-110
G002T-1-AA	G-4L140000-279-B	XX I 21 VO 01		_____	INTRA-LAB BLANK
G002T-1-AC	G-4L140000-279-C	XX I 21 VO 01		_____	INTRA-LAB CHECK
G002T-1-AD	G-4L140000-279-L	XX I 21 VO 01		_____	INTRA-LAB CHECK

Control Limits

(75-125)

(75-125)

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.  
 Inorganics Batch Review  
 QC Batch 4349279

Date 12/15/2004  
 Time 7:58:23

Method Code: VO Demand, Chemical Oxygen (410.4)  
 Analyst: Filomena Francis

<u>Work Order</u>	<u>Result</u>	<u>Units</u>	<u>LDL/Dil</u>	<u>Prep. - Anal.</u>	<u>Total Solids</u>	<u>PSRL Flag</u>	<u>R/R</u>	<u>Rounded Result</u>	<u>Output LDL</u>	<u>Dil.</u>
GUGT8-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GT9-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GVA-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GVC-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0GVE-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K68-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K69-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7A-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7D-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7E-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0K7F-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0PC2-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0PC4-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0PC5-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R1N-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R1W-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R10-1-AA	ND	mg/L	10	12/14/04	.00	N		ND	10.0	1.00
G0R12-1-AA	17.65	mg/L	10	12/14/04	.00	N		17.6	10.0	1.00
G002T-1-AA	ND	mg/L	10	12/14/04	.00			ND	10	1.00

Notes:

LCS - LCSD

<u>Work Order</u>	<u>Exception Code</u>	<u>Measured Sample</u>	<u>True Spike</u>	<u>Measured SPIKE</u>	<u>Measured Dup.</u>	<u>SPIKE</u>	<u>Pct. DUP</u>	<u>Recovered</u>	<u>RPD</u>	<u>Prep. - Anal.</u>	<u>Dil.</u>
GUU2T-1-AC		49.6		53.8288	54.4526	108.52	109.78	1.15	12/14/04		1.00

Notes:

PDE115

Severn Trent Laboratories, Inc.  
 Inorganics Batch Review  
 QC Batch 4349279

Date 12/15/2004  
 Time 7:58:23

Method Code: VO Demand, Chemical Oxygen (410.4)

Analyst: Filomena Francis

MS - MSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. SPIKE	Recovered DUP	RPD	Prep. - Anal.	Dil.
GUGT8-1-AD		ND	50	49.4626	50.0863	98.92	100.17	1.25	12/14/04	i.vc

Notes:

TEST	PRODUCTION TOTALS						HOURS
	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	
	0	0	0	0	0	0	.0

## STL Sacramento

## CURVE CALCULATION BENCHSHEET

(SOP # SAC-WC-0040)

ANALYST FRANCISF  
 REVIEWED BY BRJ  
 BATCH NO. 4349279

ANALYSIS DATE 12/14/04  
 REVIEW DATE 12/17/04  
 MS RUN NO. 4349172

METHOD NO. EPA 410.4  
 INSTRUMENT ID: SP2  
 ICV SOURCE: 2392-WC-59-4

FILE 121404ACCV SOURCE: 2392-WC-59-6

Lab ID	Time	True Conc. mg/L	Background Absorbance	Sample Aliquot		Extract Volume mL	Dilution	Absorbance	Raw Result	COD (Low)			
				gram	mL					mg/L	mg/kg	Recovery	Check
1 Std0	15:26	0						0.493	-2.62080				
2 Std1	15:26	10						0.442	13.28490				
3 Std2	15:25	50						0.321	51.02195				
4 Std3	15:25	100						0.173	97.17966				
5 Std4	15:25	150						0	151.13429				
6													
7													
8													
9													
10 [LCS/ICV:G4L070	15:26	49.6			2	2	1	0.312	53.82884	53.8288		109%	
11 [BLK/ICB:G4L070	15:27				2	2	1	0.468	5.17611	5.1761		< RL	
12 LCS-DUP	15:27	49.6			2	2	1	0.31	54.45259	54.4526		110%	
13													
14 G0GT8	15:28				2	2	1	0.477	2.36923	2.3692		< RL	
15 G0GT8-S	15:29	50			2	2	1	0.326	49.46257	49.4626		99%	
16 G0GT8-D	15:29	50			2	2	1	0.324	50.08632	50.0863		100%	
17 G0GT9	15:29				2	2	1	0.466	5.79987	5.7999		< RL	
18 G0GVA	15:30				2	2	1	0.458	8.29488	8.2949		< RL	
19 G0GVC	15:30				2	2	1	0.471	4.24048	4.2405		< RL	
20 G0GVE	15:30				2	2	1	0.477	2.36923	2.3692		< RL	
21 G0K68	15:31				2	2	1	0.468	5.17611	5.1761		< RL	
22 CCV	15:32	50			2	2	1	0.313	53.51696	53.5170		107%	
23 CCB	15:32				2	2	1	0.471	4.24048	4.2405		< RL	
24 G0K69	15:32				2	2	1	0.472	3.92861	3.9286		< RL	
25 G0K7A	15:32				2	2	1	0.477	2.36923	2.3692		< RL	
26 G0K7D	15:33				2	2	1	0.475	2.99298	2.9930		< RL	
27 G0K7E	15:33				2	2	1	0.471	4.24048	4.2405		< RL	
28 G0K7F	15:33				2	2	1	0.471	4.24048	4.2405		< RL	
29 G0PC2	15:34				2	2	1	0.47	4.55236	4.5524		< RL	
30 G0PC4	15:34				2	2	1	0.471	4.24048	4.2405		< RL	
31 G0PC5	15:34				2	2	1	0.459	7.98300	7.9830		< RL	
32 G0R1N	15:35				2	2	1	0.471	4.24048	4.2405		< RL	
33 G0R1W	15:35				2	2	1	0.46	7.67112	7.6711		< RL	
34 CCV	15:35	50			2	2	1	0.322	50.71007	50.7101		101%	
35 CCB	15:35				2	2	1	0.471	4.24048	4.2405		< RL	

Y =  
12/17/04

## STL Sacramento

36	GOR10	15:36			2	2	1	0.473	3.61673	3.6167		< RL
37	GOR12	15:36			2	2	1	0.428	17.65117	17.6512		
38	CCV	15:37	50		2	2	1	0.326	49.46257	49.4626	99%	
39	CCB	15:37			2	2	1	0.474	3.30485	3.3049		< RL